MARLIN P. JONES & ASSOC. INC.

BE FIRST TO KNOW SIGN UP FOR OUR E-MAIL SPECIALS

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Lake Park, FL
33403-8906

WIRELESS COLOR INSPECTION CAMERA

MORE PG 72

Removable Wireless LCD is Larger than most units available today

Aardvark II WITH BOTH 17mm & 9mm HEADS

2.4GHz wireless borescope with both 17 & 9 mm 3ft. flexable, weather resistant (IP-67) Color camera probe and a 3-1/2in. Recordable LCD color monitor. The Aardvark is ideal for inspecting confined spaces such as AC Vents, sink drains, motor housings, air handlers, sub floor areas, walls and much more. Wireless monitor can be removed from probe unit (up to 30ft. depending on conditions). Still pictures or video can be recorded on an included 2Gb Micro *SD* card (16Gb Max) and has outputs for connecting a larger monitor, recorder & has a USB port connecting to your computer. Includes: Padded Plastic case, AC charger/adapter, 2GB *SD* Card, video & USB cable, 3 pcs. Mirror/Hook/Magnet clip-on accessories
17mm camera: Min. hole/pipe dia. 17mm (.67")
9mm camera: Min hole/pipedia. 9.2mm

WT: 4.6

STOCK #	DESC.	1EA
18120-TE	Aardvark II Wireless Borescope	$249.00

AARDVARK ACCESSORIES

18121-TE 3ft. Flex Extension: Up to total of 5 can be used
18127-TE 15ft. Flex Extension.
NOTE: Use of extensions Require min. 19.5mm hole
18123-TE Magnetic Base for LCD Monitor
18124-TE Replcement Clip-on Mirror, Magnetic & Hook Accessories
18125-TE Replacement/Spare Supply/Charger

STOCK #	DESC.	1EA
18121-TE	3ft. Extension for Borescope	$24.95
18127-TE	15ft. Extension for Borescope	$99.00
18123-TE	Mounting Bracket for Monitor	$9.95
18124-TE	Replacement Clip-on Acces.	$7.95
18125-TE	Replacement Charger	$9.95

12VDC DPDT RELAY

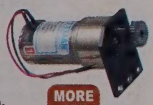
MORE PG 26

MFG: AROMAT
P/N: HG2-DC12V
COIL: 12VDC/100 ohms
CONTACT RATING: 20A@ 250VAC; 3/4hp@120VAC
ACTION: DPDT
General purpose relay with .250" Quick connect terminals for wiring or socket mounting. CSA Listed

H: 2-1/2" **W:** 1-3/8" **T:** 1-3/8" **WT:** .3

STOCK #	DESC.	1EA
18610-RL	12V Aromat Relay	$5.95

19V/82 RPM GEARHEAD MOTOR



MORE PGS 41-45

MFG: PITTMAN
P/N: GM8712F191
COIL: 19.1VDC/12ohm
USED, Gearhead DC motor rated:
82RPM @ 19.1V, .08A NL,1.5A Stall
51RPM @ 12V, .07A NL, 1A Stall
.187" dia. X .625" steel shaft with a clamp-on 30 tooth steel gear. Removable mtg. plate. Three 4-40 threaded mounting holes. 4" leads.

L: 2-3/4"(Body) **DIA:** 1-3/8" **WT:** .4

STOCK #	DESC.	1EA
18609-MD	82 RPM/19V Motor	$12.95

4 OUTPUT 12VDC SUPPLY

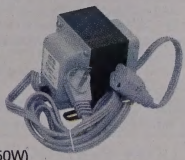
MORE PG 10

P/N: 264-2250-4
Input: 100-240 VAC 50/60Hz
Output: +12V @ 5A
Specifications/Features: Desktop switching supply. Over current protection. Std. IEC input connector. 5ft. output cable with 4 12mm X 5.5/2.1mm coaxial connectors split off 18" from ends. UL/TUV/CE Listed.
MATING POWER CORD: ORDER STOCK #7378

H: 4-5/8" **W:** 2-1/4" **D:** 1-1/2" **WT:** .6

STOCK #	DESC.	1EA
18682-PS	12VDC Camera Supply	$17.95

STEPDOWN TRANSFORMER



MFG: STANCOR
P/N: GSID150
Input: 230 VAC 50/60Hz
Output: 115VAC @ 1.3A (150W)
Specifications/Features: Step down Isolation transformer with grounded core shield. 5-1/2ft. input cord with 230V NEMA 6-15P molded plug, 8in. output cord with Std. 115V NEMA 5-15R molded receptacle. Ground pass through.

L: 4-3/16" **H:** 3-7/8" **W:** 3-3/16" **WT:** 7.6

STOCK #	DESC.	1EA
18679-TR	Stancor Stepdown Transformer	$29.95

CABLE TRACER

Two part cable tracer with 2 test leads & a 4 conductor MOD cable. Tone generator sends signal into cable that can be traced by probe. Generator features: color LED for Phone line polarity, continunity and voltage testing. 30in Red, Black leads, 12in Phone cable. Mode switch. Probe features: Non-conductive, inductive tip, Adj. volume level, Probe works with most existing tone generators. Both use 9V batteries. Includes zippered cloth carry pouch.

WT: .52

STOCK #	DESC.	1EA
6812-TE	Wire/Cable Tracer	$19.95

DUAL RANGE LED PANEL METER

MORE PGS 47-49

3-1/2 Digit, 200.0mV/20V DC input. Compact, LED DPM with black plastic face. .56" character height, adj. decimal point, auto polarity, >1Mohm input imp. 2 readings/sec., .2% accuracy. Snap-in panel mounting. Header connector for input/output. (Includes mating connector with leads.)
DIP Switch for Decimal point, Differential input, and 100X input (Switch "ON" for 20V input) selection.
5 VDC powered. Meter power and Input can share a common Ground (-input/-Power) EXCEPT in "Differential" mode.

W: 72mm **H:** 36mm **D:** 27mm **WT:** .13

STOCK #	DESC.	1EA
16565-ME	Mini 5VLED Panel Meter	$9.95

0-18VDC @ 3A BENCH SUPPLY

MORE PGS 2-10

P/N: 9600
Input: 110 VAC 60Hz
Output: 0-18VDC @ 0-3A Constant Voltage or Current
Specifications/Features: True Constant Current (Can a short) Enclosed Linear bench supply with dual LCD displays for output Volts & Amps. .01%+3mV Line / .02%+3mV Load regulation, <1mV RMS ripple. Front binding posts. Metal case & rubber feet. Internal Temp. controlled fan

L: 9-1/2" **W:** 3-5/8" **H:** 6" **WT:** 8.6

STOCK #	DESC.	1EA	5+EA
9600-PS	0-18V/3A Adj. Supply	$59.95	$52.95

12V @ 1.5A SUPPLY

MORE PG 10

MFG: TEN PAO
P/N: S018BU1200150
Input: 100-240 VAC 50/60Hz
Output: 12VDC @ 1500mA (1.5A)
Specifications/Features: Switching plug supply with overvoltage & current limit protection. Non-Polarized 2 blade input. 6ft output cord with 10mm L X 5.5/2.5mm ID coaxial plug Center +. UL/canada/usa listed.

L: 2-7/8" **W:** 1-3/4" **T:** 1-1/2" **WT:** .3

STOCK #	DESC.	1EA
18668-PS	12V @1.5A Plug Supply	$6.95

MINI TOGGLE SWITCH WITH FULL TOGGLE

MORE PGS 58,59

Mini toggle switches with full sized toggle actuator, Mounts in a 15/32" hole. Rated: Rated 6A @125V/3A@250VAC.
UL Listed. Solder terminals.

WT: .03

STOCK #	STYLE	DESC.	1EA
18376-SW	SPDT	On-None-On	$1.49
18377-SW	SPDT	On-Off-On	$1.49

5V @ 4A SUPPLY

MFG: OPENPEAK
P/n: OP 20004
Input: 90-132 VAC 60Hz
Output: 5VDC @ 4A
Specifications/Features: Switching plug supply with overvoltage & current limit protection. Non-Polarized 2 blade input. 6ft output cord with 10mm X 5.5/2.1mm ID Right Angle coaxial plug Center +. UL/canada/usa/listed. RoHS compliant .

H: 3-3/8" **W:** 1-1/2" **T:** 2-1/4" **WT:** .3

STOCK #	DESC.	1EA
18520-PS	5V @ 4A Plug Supply	$6.95

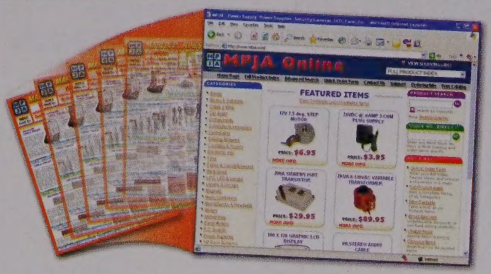
12V G-4 BI-PIN LED LAMP

MORE PGS 65

Bi-pin bulb replacement assembly features: 14 super brite White LEDs,12VAC or DC operation, 55deg. beam angle. 40mA current, 90deg. beam angle, Intensity: 10,000mCd. Replacement for most G-4 lamps. .9mm dia. X 8mm Steel Pins, plastic body.

Dia.: 22.5mm **T:** 11mm **WT:** .009

STOCK #	DESC.	1EA	10+EA
17356-OP	White LED Bi-Pin Lamp	$8.95	$6.95



This Catalog is just a SAMPLING of what our WEBSITE has to Offer!

- 1000's of additional products, visit us at: **www.mpja.com**
- 24/7 SSL SECURE Website Ordering
- Searchable Database of all our Products
- All Products Organized by Categories
- View all Quantity Discount Pricing
- Access to Datasheets (where available)

0-18VDC @ 3A BENCH SUPPLY

MFG: MASTECH (360° WEB)
P/N: HY1803D
Input: 110 VAC 60Hz
Output: 0-18VDC @ 0-3A
Constant Voltage or Current
Specifications/Features: Enclosed bench supply with dual LCD displays for output Volts & Amps. .02% Line /.01% Load regulation, <1mV RMS ripple. Front binding posts. CE listed.
L: 8-7/8" **W:** 3-5/8" **H:** 6-1/4" **WT:** 6.2

STOCK #	DESC.	1EA	5+EA
14600-PS	0-18V/3A Adj. Supply	$59.95	$52.95

0-30VDC @ 3A BENCH SUPPLY

MFG: MASTECH (360° WEB)
P/N: HY3003
Input: 110 VAC 60Hz
Output: 0-30VDC @ 0-3A
Constant Voltage or Current
Specifications/Features: Enclosed bench supply with dual LED displays for output Volts & Amps. .02% Line /.01% Load regulation, <1mV RMS ripple. Front binding posts. CE listed.
L: 11-1/2" **W:** 5-1/4" **H:** 6-1/4" **WT:** 11.5

STOCK #	DESC.	1EA	5+EA
14601-PS	0-30V/3A Adj. Supply	$89.00	$85.00

0-50VDC @ 3A BENCH SUPPLY

MFG: MASTECH (360° WEB)
P/N: HY5003
Input: 110 VAC 60Hz
Output: 0-50VDC @ 0-3A
Constant Voltage or Current
Specifications/Features: Enclosed bench supply with dual LED displays for output Volts & Amps. .02% Line /.01% +15mV Load regulation, <1mV RMS ripple. Front binding posts. CE listed.
L: 11-1/2" **W:** 5-1/4" **H:** 6-1/4" **WT:** 13.1

STOCK #	DESC.	1EA	5+EA
14602-PS	0-50V/3A Adj. Supply	$99.00	$95.00

0-30VDC/5A BENCH SUPPLY

MFG: MASTECH (360° WEB)
P/N: HY3005E
Input: 110 VAC 60Hz
Output: 0-30VDC @ 0-5A
Constant Voltage or Current
Specifications/Features: Enclosed bench supply with dual LED displays for output Volts & Amps. .02% Line /.01% +15mV Load regulation, <1mV RMS ripple. Front binding posts. CE listed.
L: 11-1/2" **W:** 5-1/4" **H:** 6-1/4" **WT:** 5.7

STOCK #	DESC.	1EA	5+EA
14603-PS	0-30V/5A Bench Supply	$110.00	$95.00

DUAL 0-30VDC/3A & 5VDC/3A BENCH SUPPLY

MFG: MPJA Inc.
Input: 110 VAC 60Hz
Outputs: **#1:** 0-30VDC @ 0-3A
#2: 0-30VDC @ 0-3A **#3:** 5VDC @ 3A fixed
Specifications/Features: Dual Constant Voltage or Current supply with dual backlit LCD meters that displays Volts & Amps. Selectable Series or Parallel operation of Adj. supplies (0-60V/3A or 0-30V/6A).10 turn Voltage control, Push button Current control (30ma resolution). <.01% Line / Load regulation (CV) .05% line/load (CC), <1mV /<2mA RMS ripple. Front panel output Banana Jacks & Terminal strips.
W: 10-3/4" **D:** 13" **H:** 7-1/2" **WT:** 28.7

STOCK #	DESC.	1EA
9333-PS	Dual 0-30V & 5V Bench Supply	$179.00

DUAL 0-30VDC/3A & 5VDC/3A BENCH SUPPLY

MFG: MASTECH
P/N: HY3003F-3
Input: 110 VAC 60Hz
Outputs: **#1:** 0-30VDC @ 0-3A
#2: 0-30VDC @ 0-3A **#3:** 5VDC @ 3A fixed
Specifications/Features: Enclosed bench supply with 4 LED displays for output Volts & Amps. .02% Line /.01% +15mV Load regulation, <1mV RMS ripple. Front binding posts. CE listed.
W: 10-1/4" **D:** 14-1/2" **H:** 6-1/4" **WT:** 20

STOCK #	DESC.	1EA
14605-PS	Dual 0-30V & 5V Bench Supply	$179.00

0-30VDC/10A BENCH SUPPLY

MFG: MASTECH (360° WEB)
P/N: HY3010E
Input: 110 VAC 60Hz
Output: 0-30VDC @ 0-10A Constant Voltage or Current
Specifications/Features: Enclosed bench supply with dual LED displays for output Volts & Amps. .02% Line / .01% +15mV Load regulation, <1mV RMS ripple. Front binding posts. CE listed.
W: 10-1/4" **D:** 13" **H:** 6-1/4" **WT:** 13.1

STOCK #	DESC.	1EA	5+EA
14604-PS	0-30V/10A Supply	$169.00	$149.00

0-30VDC/20A BENCH SUPPLY

MFG: MASTECH
P/N: HY3020E
Input: 110 VAC 60Hz
Output: 0-30VDC @ 0-20A Constant Voltage or Current
Specifications/Features: Enclosed bench supply with LED meters for Volts & Amps. .01% Line / Load regulation (CV) .2% line/load (CC), <1mV RMS ripple. Front binding posts. CE listed.
W: 10-1/4" **D:** 14-1/2" **H:**6-1/4" **WT:** 20

STOCK #	DESC.	1EA	5+EA
15950-PS	0-30V/20A Supply	$269.00	$239.00

PROGRAMMABLE 0-36VDC @ 3A BENCH SUPPLY

INPUT: 110 VAC 60Hz
OUTPUT: 0-36VDC @ 0-3A
Resolution V: 1mV @<3.999V 10mV @>4.000V
I: <=1mA
Ripple: <= 2mV RMS
Regulation: <= .02% +10mv Line/Load
Specifications/Features: Programmable supply with back-lit LCD display, numeric keypad, rotary digital control. Operates as Constant Voltage, Current or Power. Up to 10 settings can be stored in memory. Easy set up using keypad. OPTIONAL Control packages allows PC control via RS232 or USB interface.
W: 8-1/2" **H:** 3-3/4" **D:** 11" **WT:** 14.9

STOCK #	DESC.	1EA
15316-PS	Programmable Supply	$199.00
15317-PS	RS232 Computer Interface	$24.95
15318-PS	USB Computer Interface	$24.95
15319-PS	RS485 Computer Interface	$24.95

0-120VDC/1A BENCH SUPPLY

MFG: MPJA Inc.
Input: 110 VAC 60Hz
Output: 0-120VDC @ 0-1A
Specifications/Features:
Constant Voltage or Current Enclosed bench supply with single backlit LCD meter that displays Volts & Amps. 10 turn Voltage control, Push Button Current control (30ma resolution). <.01% Line/ Load regulation (CV) .05% line/load (CC), <1mV / <2mA RMS ripple. Front panel output Banana Jacks & Terminal strips.Rubber feet, top carry strap
W: 5-1/4" **D:** 11-1/4" **H:** 7-1/2" **WT:** 14.3

STOCK #	DESC.	1EA	5+EA
9312-PS	0-120V/1A Supply	$129.00	$119.00

0-120VDC/3A BENCH SUPPLY

(360° WEB)
MFG: MPJA Inc.
Input: 110 VAC 60Hz
Output: 0-120VDC @ 0-3A
Specifications/Features: Regulated Bench supply with Adjustable Current limit. LED meter displays Volts & Amps. Push button switch connects supply to load. Multi turn Voltage control for precise settings. 5mV RMS ripple. Front panel output Banana Jacks & Terminal strip for remote Voltmeter Sensing at the load.
W: 10-3/4" **D:** 15" **H:** 6" **Ship WT:** 26.5

STOCK #	DESC.	1EA
9313-PS	0-120V 3A Bench Supply	$265.95

High reliability line of power supplies designed to operate over the wide range of AC power found world wide.

- **Overvoltage, Overcurrent, Short Circuit Protected**
- **100% Full Load Burn-in Tested--Full rated to 50°C**

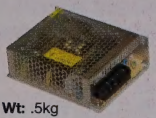
No minimum load--UL/CANADA/USA/CE listed.

GENERAL SPECIFICATIONS

RoHS Compliant

Line Regulation (Full Load): < +/- 0.5%
Load Regulation: .05% (0-100%)
Inrush Current: 20A/115V, 40A/230V
Input Leakage Current: <0.7mA @ 230VAC
Output Adjustment Range: +/- 10%
Overload Protection: 40/60W: 110-150%
100/150W: 110-130%
Over Voltage Protection: 115-150%
Rise Time: 50mS Full Load (Typical)
Hold Up Time: 20mS Full Load (typical)
Withstand Voltage (1 Min.):
Input to Output: 3.0KV AC
Input to Frame/Ground: 1.5KV AC
Output to Frame/Ground: 0.5KV AV
MTBF: 100,000 Hours
Operating Temp. & Humidity: -10° C to +50° C
20%-93% Non Condensing
Storage Temp. & Humidity: -20° C to +85° C
20%-95% Non Condensing
Cooling: Convection
Approvals/Standards:
UL Ref. No.: E258719
Safety: GB4943, UL60950, EN60950
EMC: GB9254, EN55022 class B, EN55024
EN61000-3-2/3
EN61000-4-2/3/4/5/6/8/11

40W SUPPLIES



360° VIEW @MPJA.COM

Input: 85-264 VAC 47-63Hz Universal

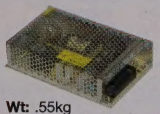
L: 129mm	**W:** 98mm	**H:** 40mm	**Wt:** .5kg
L: 5.08"	**W:** 3.86"	**H:** 1.57"	**Wt:** 1.1lb

STOCK #	OUTPUT	PS1 PART #	RIP/NOISE	EFF	CASE
16000-PS	5V/8A	PS1-40W-SL5	80mV	72%	A
16001-PS	12V/3.5A	PS1-40W-SL12	100mV	76%	A
16002-PS	15V/2.8A	PS1-40W-SL15	100mV	76%	A
16003-PS	24V/1.8A	PS1-40W-SL24	100mV	78%	A
16004-PS	48V/0.8A	PS1-40W-SL48	150mV	80%	A

DISCOUNT PRICING

Qty: 1-9	Qty: 10-99	Qty: 100+
$22.50	$18.80	$15.89

60W SUPPLIES



Input: 85-264 VAC 47-63Hz Universal

L: 160mm	**W:** 98mm	**H:** 39mm	**Wt:** .55kg
L: 6.3"	**W:** 3.86	**H:** 1.54"	**Wt:** .1.2lb

STOCK #	OUTPUT	PS1 PART #	RIP/NOISE	EFF	CASE
16005-PS	5V/12A	PS1-60W-SL5	80mV	73%	B
16006-PS	12V/5A	PS1-60W-SL12	100mV	76%	B
16007-PS	15V/4A	PS1-60W-SL15	120mV	77%	B
16008-PS	24V/2.5A	PS1-60W-SL24	150mV	80%	B
16009-PS	48V/1.3A	PS1-60W-SL48	200mV	81%	B

DISCOUNT PRICING

Qty: 1-9	Qty: 10-99	Qty: 100+
$26.88	$21.92	$18.25

100W SUPPLIES

Input: 85-132/170-264 VAC 47-63Hz Selectable

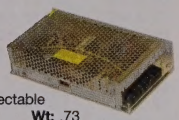
L: 199mm	**W:** 98mm	**H:** 39mm	**Wt:** .68kg
L: 7.83"	**W:** 3.86"	**H:** 1.54"	**Wt:** 1.5lb

STOCK #	OUTPUT	PS1 PART #	RIP/NOISE	EFF	CASE
16010-PS	3.3V/20A	PS1-100W-SF3.3	100mV	77%	C
16011-PS	5V/20A	PS1-100W-SF5	100mV	78%	C
16012-PS	7.5V/13.5A	PS1-100W-SF7.5	100mV	82%	C
16013-PS	12V/8.5A	PS1-100W-SF12	100mV	82%	C
16014-PS	15V/6.7A	PS1-100W-SF15	100mV	82%	C
16015-PS	24V/4.5A	PS1-100W-SF24	100mV	83%	C
16016-PS	48V/2.2A	PS1-100W-SF48	150mV	84%	C

DISCOUNT PRICING

Qty: 1-9	Qty: 10-99	Qty: 100+
$32.80	$26.49	$22.50

150W SUPPLIES



Input: 85-132/170-264 VAC 47-63Hz Switch Selectable

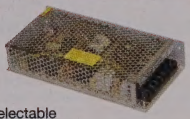
L: 199mm	**W:** 110mm	**H:** 50mm	**Wt:** .73
L: 7.83"	**W:** 4.33"	**H:** 1.97"	**Wt:** 1.6lb

STOCK #	OUTPUT	PS1 PART #	RIP/NOISE	EFF	CASE
16017-PS	5V/30A	PS1-150W-05	120mV	78%	D
16018-PS	7.5V/20A	PS1-150W-075	120mV	80%	D
16019-PS	9V/17A	PS1-150W-09	120mV	80%	D
16020-PS	12V/12.5A	PS1-150W-12	120mV	82%	D
16032-PS	24V/6.5A	PS1-150W-24	150mV	85%	D
16033-PS	28V/5.5A	PS1-150W-28	150mV	85%	D
16034-PS	36V/4.2A	PS1-150W-36	200mV	86%	D

DISCOUNT PRICING

Qty: 1-9	Qty: 10-99	Qty: 100+
$40.75	$33.70	$27.90

240W SUPPLIES



Input: 85-132/170-264 VAC 47-63Hz Switch Selectable

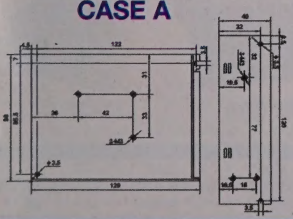
L: 199mm	**W:** 110mm	**H:** 50mm	**Wt:** .9kg
L: 7.83"	**W:** 4.33"	**H:** 1.97"	**Wt:** 2.0lb

STOCK #	OUTPUT	PS1 PART #	RIP/NOISE	EFF	CASE
18434-PS	5V/40A	PS1-240W-SL05	100mV	80%	D
18435-PS	12V/18A	PS1-240W-SL12	100mV	83%	D
18436-PS	24V/10A	PS1-240W-SL24	120mV	85%	D
18437-PS	48V/5A	PS1-240W-SL48	150mV	87%	D

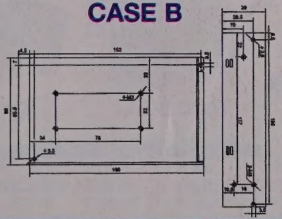
DISCOUNT PRICING

Qty: 1-9	Qty: 10-99
$47.95	$43.95

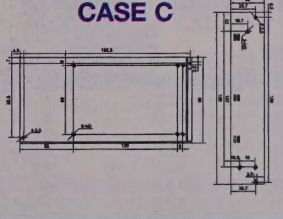
CASE A



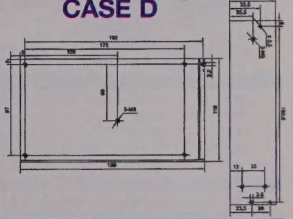
CASE B



CASE C



CASE D



INTERNATIONAL POWER OPEN FRAME LINEAR SUPPLIES

Specifications/Features: High reliability line of power supplies designed to operate over the wide range of AC power sources found world wide. +-.05% Regulation, Full rated to 50°C, Foldback Current Limit, no minimum load, Remote Sense, UL/CSA/TUV/CE listed. RoHS level 5

5VDC OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz **Output:** See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
6601-PS	IHA5-1.2/OVP	5V/1.2A	A	$35.15	$33.30
6602-PS	IHA5-1.5/OVP	5V/1.5A	B	$35.15	$33.30
6603-PS	IHB5-3/OVP	5V/3.0A	B	$35.15	$33.30
6604-PS	IHC5-6/OVP	5V/6.0A	C	$58.43	$55.35
6605-PS	IHN5-9/OVP	5V/9.0A	N	$79.80	$75.60
6606-PS	IHD5-12/OVP	5V/12.0A	D	$90.73	$85.95
8521-PS	IHE5-18/OVP	5V/18.0A	E	$128.01	$121.28
8522-PS	IHF5-25/OVP	5V/25.0A	F	$193.28	$183.11

15VDC OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz **Output:** See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
6612-PS	IHA15-0.5	15V/0.5A	A	$35.15	$33.30
6613-PS	IHA15-0.9	15V/0.9A	B	$35.15	$33.30
6614-PS	IHB15-1.5	15V/1.5A	B	$35.15	$33.30
6615-PS	IHC15-3.0	15V/3.0A	C	$53.68	$50.85
6616-PS	IHN15-4.5	15V/4.5A	N	$75.05	$71.10
6617-PS	IHD15-6	15V/6.0A	D	$85.03	$80.55
8524-PS	IHE15-9	15V/9.0A	E	$118.51	$112.28
6618-PS	IHF15-15	15V/15.0A	F	$193.28	$183.11

28VDC OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz **Output:** See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
6626-PS	IHB28-1	28V/1.0A	B	$35.15	$33.30
6627-PS	IHC28-2	28V/2.0A	C	$53.68	$50.85
6628-PS	IHN28-3	28V/3.0A	N	$75.05	$71.10
6629-PS	IHD28-4	28V/4.0A	D	$85.03	$80.55
8525-PS	IHE28-6	28V/6.0A	E	$118.51	$112.28

HIGH VOLTAGE OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz **Output:** See below.

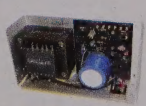
STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
8528-PS	IHB155-0.12	155-170V/.12A	B	$43.84	$41.54
8529-PS	IHB200-0.12	175-210V/.12A	B	$43.84	$41.54
8530-PS	IHB250-0.10	215-265V/.10A	B	$43.84	$41.54

CASE SIZE AND WEIGHTS

CASE A

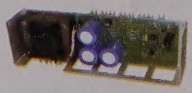
CASE B

CASE C



CASE D

CASE E



CASE F

CASE N

CASE	LEN.	WIDTH	THICK	WEIGHT
A	3.75"	3.00"	2.20"	1
B	4.87"	4.00"	2.10"	2
C	5.62"	4.87"	2.95"	4
N	7.00"	4.87"	3.35"	6
D	9.00"	4.87"	3.20"	7.5
E	14.00"	4.87"	3.40"	10
F	16.75"	4.88"	6.30"	19

12VDC OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz. **Output:** See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
6607-PS	IHB12-1.7	12V/1.7A	B	$35.15	$33.30
6608-PS	IHC12-3.4	12V/3.4A	C	$53.68	$50.85
6609-PS	IHN12-5.1	12V/5.1A	N	$75.05	$71.10
6610-PS	IHD12-6.8	12V/6.8A	D	$85.03	$80.55
8523-PS	IHE12-10 .2	12V/10.2A	E	$118.51	$112.28
6611-PS	IHF12-15	12V/15.0A	F	$193.28	$183.11

24VDC OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz **Output:** See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
6619-PS	IHA24-0.5	24V/0.5A	B	$35.15	$33.30
12784-PS	IHB24-1.2	24V/1.2A	B	$35.15	$33.30
6621-PS	IHC24-2.4	24V/2.4A	C	$53.68	$50.85
6622-PS	IHN24-3.6	24V/3.6A	N	$75.05	$71.10
6623-PS	IHD24-4.8	24V/4.8A	D	$85.03	$80.55
6624-PS	IHE24-7.2	24V/7.2A	E	$118.51	$112.28
7377-PS	IHF24-12	24V/12.0A	F	$193.28	$183.11

48VDC OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz **Output:** See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
6630-PS	IHB48-0.5	48V/0.5A	B	$42.75	$40.50
6631-PS	IHC48-1	48V/1.0A	C	$58.43	$55.35
6632-PS	IHD48-3	48V/3.0A	D	$90.73	$85.95
8526-PS	IHE48-4	48V/4.0A	E	$128.01	$121.28
8527-PS	IHF48-8	48V/8.0A	F	$269.80	$255.60

500 WATT POWER SOURCES

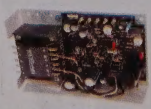
Unregulated power sources for use where full regulated power is not required, such as solenoids, motors, DC/DC converters & lamps. Floating outputs, 3% output ripple at full load (4% on 12V model), Full rated to 55°C, no minimum load. UL/CSA/TUV listed **Input:** 108/120/132/216/240/264 VAC 50/60Hz. **Output:** See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
8531-PS	IP500U12	14.7V/0A 13V/15A 12V/30A	U	$204.73	$193.95
6645-PS	IP500U24	29.2/0A 26.8/10A 24.6V/20.0A	U	$204.73	$193.95
6642-PS	IP500U36	42.8/0A 38.2/6.6A 36.1V/13.3A	U	$204.73	$193.95
6646-PS	IP500U48	56.6/0A 52.8/5A 48.8V/10.0A	U	$204.73	$193.95
6643-PS	IP500U65	72.5/0A 68.8/3.8A 65/7.7A	U	$204.73	$193.95
6644-PS	IP500U75	85.5/0A 78.2/3.3A 74.8V/6.6A	U	$204.73	$193.95

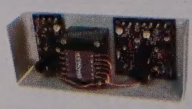
MULTI. OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz **Output:** See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
6633-PS	IHAA15-0.8	+&-12V/0.8A	AA	$46.22	$43.79
6634-PS	IHTAA16W	5V/2A,+12/.4,-12/.4	AA	$58.71	$55.62
6635-PS	IHBAA40W	5V/3A,+&-12V/1A	BAA	$80.56	$76.32



CASE AA



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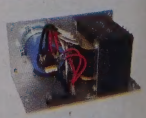


CASE U

CASE	LEN.	WIDTH	THICK	WEIGHT
AA	6.50"	4.00"	2.07"	2
BAA	10.25"	4.00"	2.95"	5
U	9.0"	4.62"	5.62"	22

INTERNATIONAL POWER OPEN FRAME MULTIPLE OUTPUT LINEAR SUPPLIES

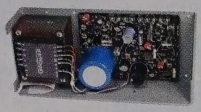
Input: 100/120/220/230-240 VAC 50/60Hz **Output:** See below.

STOCK #	MFG/MODEL #	OUTPUT #1	OUTPUT #2	OUTPUT #3.	CASE	WT.	1EA	10+EA
8532-PS	IHCC5-6/OVP	+5V @ 6.0A	-5V @ 6.0A	-	CC	7 lbs	$103.41	$97.97
8533-PS	IHD12-6.8-504	+5V @ 3.0A	12V @ 6A Isolated	-	D	7.5 lbs	$129.11	$122.31
6641-PS	IHCC512	+5V @ 6.0A	12-15V adj @ 2.5A Isolated		CC	7 lbs	$98.66	$93.47
6637-PS	IHAD12-0.4	+12V @ 0.4A	-12V @ 0.4A	-	B	2 lbs	$39.38	$37.31
6638-PS	IHAD15-0.4	+15V @ 0.4A	-15V @ 0.4A	-	B	2 lbs	$39.38	$37.31
8534-PS	IHBB24-1.2	+24V @ 1.2A	-24V @ 1.2A	-	BB	4 lbs	$59.85	$56.70
6639-PS	IHCC15-3.0	+12V @ 3.4A	-12V @ 3.4A	-	CC	7 lbs	$93.91	$88.97
	OR	+15V @ 3.0A	-15V @ 3A	-				
6636-PS	IHCAA-60W	+5V @ 6.0A	+12-15V @ 1A	-12-15V @ 1A	D	7.5 lbs	$96.05	$90.99
	OR		"	-5V @ 0.4A				
7380-PS	IHBCC512	+5V @ 3.0A	+12V @ 3.4A	-12V @ 3.4A	CC	7 lbs	$124.26	$117.72
	OR	"	+15V @ 3A	-15V @ 3A				
8535-PS	IHBCC524	+5V @ 3.0A	+18-20V @ 1.8A	-18-20V @ 1.8A	CC	7 lbs	$124.26	$117.72
	OR	"	+24V @ 2.4A	-24V @ 2.4A				
			MULTIPLE OUTPUT LINEAR FOR HARD/FLOPPY DRIVES					
8536-PS	ICP162	+5V @ 3A	-5V @ .6A	+24V @ 5A (6Apk)	131	9 lbs	$138.75	$131.45

OVERVOLTAGE PROTECTORS

6647-PS	IOVP12	Adjustable overvoltage protector for ALL Case sizes Smaller than "D"	.2 lbs	$10.40	$9.86
6648-PS	IOVP24	Adjustable overvoltage protector for ALL "E", "F", & "G" Case Sizes	.4 lbs	$18.00	$17.06

CASE	LEN.	WIDTH	THICK	WEIGHT
CC	9.38"	4.87"	3.20"	7



CASE	LEN.	WIDTH	THICK	WEIGHT
131	11.00"	4.87"	3.20"	9

CASE	LEN.	WIDTH	THICK	WEIGHT
BB	7.00"	4.87"	2.05"	9

20A REGULATED 13.8 DC BENCHTOP SUPPLY

MFG: SAMLEX
Input: 115 VAC 60Hz
Outputs: 13.8VDC @20A
Specifications/Features: Short Circuit & Overload Protected. P/P ripple under 10mV. Metal Case, Power Cord, Line Fuse and Switch. For Cellular Phones, AutoAccessories,Test Equipment. Binding post for output.
W: 6-3/4" **H:** 4-1/2" **D:** 8-1/2" **WT:** 16.1

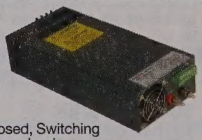
STOCK #	DESC.	1EA	3EA	10+EA
5386-PS	13.8V/20A	$159.95	$148.95	$144.95

UL/CSA LISTED 10A REGULATED 13.8VDC BENCHTOP SUPPLY

MFG: SAMLEX
Input: 110/120VAC 50-60Hz
Output: 13.8VDC @ 10A
Short Circuit & Overload Protected. With Metal Case, Power Cord, Line Fuse and Switch For Cellular Phones, Auto Accessories, Test Equipment. Binding post for output.UL/CSA listed
W: 9-1/2" **H:** 5" **D:** 9-3/4" **WT:** 15.3

STOCK #	DESC.	1EA	3EA	10+EA
5825-PS	13.8V/10A UL	$99.95	$89.95	$79.95

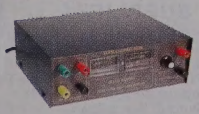
600W POWER SUPPLIES



High reliability line of Enclosed, Switching power supplies. No minimum load
•Overvoltage, Overcurrent, Short Circuit Protected
•Parallel Function (N+1)•Remote Sense•Remote Control
Input: 90-130/180-260VAC Input (Switch Select) 47-63Hz
Output: See below
L: 13.2" **W:** 5.2" **H:** 2.68" **WT:** 6.1

STOCK #	DESC.	1EA	10EA
18401-PS	5V/100A 500W Supply	$115.95	CALL
18402-PS	12V/50A 600W Supply	$115.95	CALL
18403-PS	13.5V/44A 600W Supply	$115.95	CALL
18404-PS	24V/25A 600W Supply	$115.95	CALL
18405-PS	28V/21A 600W Supply	$129.95	CALL
18406-PS	48V/12A 600W Supply	$115.95	CALL

2.5-18VDC @ 2A BENCH SUPPLY WITH FIXED +5 &-/+12



MFG.: ELENCO
P/N: XP581
Input:120VAC
Outputs: #1: 2.5-18V @ 1.5A(2Max)
#2: +5VDC @ 3A **#3:** +12VDC @ 1A **#4:** -12VDC @ 1A Foldback current limit. Volt & Amp Meters, .05V Line/load reg. on fixed outputs; .4V on variable. 5mV ripple. Metal Case, Power Cord, Switch, & Binding Posts.
W: 9.3" **H:** 3.5" **D:** 8.3" **WT:** 10

STOCK #	DESC.	1EA	3EA
8775-PS	2.6-18V Output Elenco	$110.00	$99.95

THOUSANDS
more items on www.mpja.com

REGULATED 13.8V DC SUPPLY

MFG: MPJA
Input: 110 VAC 60Hz
Outputs: 13.8V @ 6A 8A Surge
Regulated, Fixed output bench supply, Metal Case, Power Cord, Line Fuse and Switch. For Cellular Phones, Auto Accessories, Test Equipment. Front Binding Posts.
Does not have short circuit protection.
W: 6" **H:** 4-1/2" **D:** 11-1/4" **WT:** 5.6

STOCK #	DESC.	1EA	4EA
9323-PS	13.8V@6A Bench Supply	$39.95	$36.95

MULTI OUTPUT SUPPLY

360° WEB

P/N: 9902-PS
Input: 90-250VAC 60Hz
Outputs: 3,4.5, 6, 7.5,9,12VDC @ 2000mA Selectable
Specifications/Features: Enclosed, Benchtop regulated, switching supply. Switch selectable output. Front panel Power switch, Select switch & Binding posts. 6ft. 2 wire input power cord with 2 blade plug.
L: 6-1/2" **W:** 3-7/8" **H:** 2-1/4" **WT:** 1.1

STOCK #	DESC.	1EA	5EA
9902-PS	Multi Output Supply	$19.95	$17.95

DIN RAIL POWER SUPPLIES

MFG: HENGFU
P/N: HF150-SDR Series
Input: 85-132VAC 50/60Hz
Output: 150W See Below
Specifications/Features:
Compact supply mounts on TS35/7.5 or /15 DIN rails 0.5% line/load reg, 120/150mV Ripple/noise. Over Voltage/Current/Short circuit protected, LED Power out indicator. Built-in EMI Filter. CE listed

W: 4-1/4" **H:** 4-1/4" **D:** 3-3/8" **WT:** 1.6

STOCK #	DESC.	1EA
17895-PS	12V/12.5A DIN Supply	$49.95
17896-PS	24V/6.5A DIN Supply	$49.95
17897-PS	48V/3.1A DIN Supply	$49.95

1KVA LINE STABILIZER

P/N: ATVR-1000
Input: 80-140/180-240VAC 50-60Hz
Output: 110V & 220V AC1KVA+-4%
Specifications/Features:
Micro processor controlled, Benchtop autoregulator for AC line. Automatically compensates for input line voltage variations. Front panel analog meters & power switch, input voltage switch. 110 & 220 AC sockets, fuse,& cord on back. Ideal for testing 110 & 220 equipment. 6ft AC line cord input

W: 9-1/2" **H:** 7-1/4" **W:** 5-1/2" **WT:** 15.1

STOCK #	DESC.	1EA	5+EA
14834-PS	1KVA Stabilizer	$62.95	$56.95

AC LINE STABILIZER

P/N: AR-2000
Input: 75-130/180-260VAC 50-60Hz
Output: 110V & 220V AC 2000W
Specifications/Features:
Benchtop auto regulator for AC line. Automatically senses input line voltage & switches windings to compensate. Front panel output Voltmeter, 110 & 220 AC sockets, Output fuse, & switch. Ideal for testing 110 & 220 equipment. 6ft AC line cord input.

W: 10" **H:** 5-1/2" **D:** 11-1/2" **WT:** 23.4

STOCK #	DESC.	1EA	5+EA
17271-PS	2KVA Line Regulator	$85.95	$79.95

300W POWER SUPPLIES

High reliability, Enclosed, Switching power supplies.
•Overvoltage, Overcurrent, Short Circuit Protected
•100% Full Load Burn-in Tested--Full rated to 50°C
•No minimum load

Input: 90-130 VAC Input 50/60Hz
Output: See below

L: 9.5" **W:** 4.9" **H:** 2.6" **WT:** 3

STOCK #	DESC.	1EA	10EA
16487-PS	9V/33A Power Supply	$97.00	$88.50
16490-PS	36V/8.5A Power Supply	$97.00	$88.50

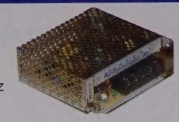
12V/2A, SUPPLY

MFG: APS/HITRON
P/N: APS19VI-11(L-B)
Input: 115/240VAC 47/63Hz
Output: 12VDC @ 2A Max.
Specifications/Features: Max. output 25W, Open frame switching supply. +-.1% Line /2.0% Load Regulation at 20% minimum load. Over Voltage & Current Limit. Rated to 50 Deg. "C". UL/canada/usa/TUV/CE listed.

L: 4-3/8" **W:** 2-3/8" **H:** 1-1/2" **WT:** .5

STOCK #	DESC.	1EA
18595-PS	APS/Hitron 12V/2A Supply	$8.95

5VDC/5A SUPPLY



MFG: METAPO
Input: 100-240VAC 50/60Hz
Output: 5V@5A
Specifications/Features:
Enclosed regulated switching supply. Over Voltage & Current protected. LED output indicator. Terminal strip In/Out. ULusa/canada/TUV/CE listed.

25W: **L:** 3.9" **W:** 3.82" **H:** 1.4" **WT:** .8

STOCK #	DESC.	1EA	40EA
17431-PS	5V/5A 25W Supply	$12.95	$11.95

24VDC SUPPLIES

MFG: POTRANS
Input: 100-250VAC 50/60Hz
Output: See Below
Specifications/Features:
Enclosed regulated switching supply. Over Voltage & Current protected. LED output indicator. Terminal strip In/Out. ULusa/canada/TUV/CE listed.

40W:	**L:** 5-1/8"	**W:** 3-7/8"	**H:** 1-1/2"	**WT:** 1
60W:	**L:** 6-5/16"	**W:** 3-3/4"	**H:** 1-1/2"	**WT:** 1.2
100W:	**L:** 7-7/8"	**W:** 3-3/4"	**H:** 1-1/2"	**WT:** 1.4
150W:	**L:** 7-7/8"	**W:** 4-3/8"	**H:** 2"	**WT:** 1.9

STOCK #	DESC.	1EA
17426-PS	24V/1.8A 40W Supply	$10.95
18235-PS	24V/2.5A 60W Supply	$12.95
17428-PS	24V/4.2A 100W Supply	$17.95
16854-PS	24V/6.5A 150W Supply	$14.95

INDUSTRIAL 15W SUPPLIES

MFG: HENGFU
Input: 85-264VAC 47-63Hz
Output: see chart
Specifications/Features:
Open Frame regulated switching supply. Over Voltage & Current protected. LED output indicator. Header In/Out. UL/us/canada/CE listed

L: 4.0" **W:** 1.82" **H:** 1.0" **Wt:** .2lb

STOCK #	OUTPUT	PART #	1EA
18438-PS	5V/3A	HF15W-SPL-5	$14.95
18439-PS	12V/1.3A	HF15W-SPL-12	$14.95
18440-PS	24V/0.6A	HF15W-SPL-24	$14.95
18441-PS	48V/0.3 A	HF15W-SPL-48	$14.95

INDUSTRIAL 25W SUPPLIES

MFG: HENGFU
Input: 85-264VAC 47-63Hz
Output: see chart
Specifications/Features:
Open Frame regulated switching supply. Over Voltage & Current protected. LED output indicator. Header In/Out. CE listed

L: 4.0" **W:** 1.82" **H:** 1.0" **Wt:** .2lb

STOCK #	OUTPUT	PART #	1EA
18442-PS	5V/5A	HF15W-SPL-5	$15.95
18443-PS	12V/2.1A	HF15W-SPL-12	$15.95
18444-PS	24V/1.1A	HF15W-SPL-24	$15.95
18445-PS	48V/0.5A	HF15W-SPL-48	$15.95

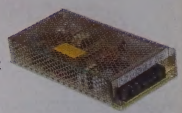
DUAL OUTPUT SUPPLIES

MFG: HENGFU
P/N: HF100W-DF series (See Below)
Input: 85-132/170-264VAC 50/60Hz. (Switch Select)
Output: See below
Specifications/Features: *100W,* Enclosed regulated switching supply with Floating outputs. Line Reg: 0.5% Load Reg: 0.5% on 5V; 3% on #2. Over Voltage & Current protected. LED output indicator. Terminal strip In/Out. CE listed.

L: 7-7/8" **W:** 3.7/8" **H:** 1-5/8" **WT:** 1.6

STOCK #	SERIES	OUTPUT #1	#2	1EA
18111-PS	DF-A	5V/10A	12V/4A	$39.95
18112-PS	DF-B	5V/15A	15V/2A	$39.95
18113-PS	DF-C	5V/15A	24V/1A	$39.95

INDUSTRIAL SUPPLIES



MFG: MEANWELL
Input: 120/240VAC 50/60Hz (Switch Select)
Output: see chart
Specifications/Features:
Enclosed regulated switching supply. Over Voltage & Current protected. LED output indicator. Terminal strip In/Out. UL/us/canada/CSA/us/canada/CE/TUV listed

100W SUPPLIES

L: 7.83" **W:** 3.85" **H:** 1.5" **WT:** 1.5

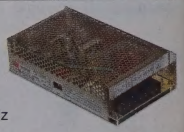
STOCK #	OUTPUT	M/W PART #	NOISE	1EA
17823-PS	5V/20A	S-100F-5	100mV	$34.95
17824-PS	12V/8.5A	S-100F-12	125mV	$34.95
17825-PS	24V/4.5A	S-100F-24	150mV	$34.95
17826-PS	48V/2.2A	S-100F-48	150mV	$34.95

150W SUPPLIES

L: 7.83" **W:** 4.33" **H:** 1.97" **WT:** 1.8

STOCK #	OUTPUT	M/W PART #	NOISE	1EA
17827-PS	5V/30A	S-150-5	150mV	$44.95
17828-PS	12V/12.5A	S-150-12	180mV	$44.95
17829-PS	24V/6.5A	S-150-24	240mV	$44.95
17830-PS	48V/3.2A	S-150-48	240mV	$44.95

9V @ 16.7A SUPPLY

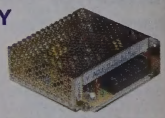


MFG: MEANWELL
P/N: S-150-9
Input: 120/240VAC 50/60Hz
Output: 9VDC @ 16.7A
Specifications/Features:
Enclosed regulated switching supply. Over Voltage & Current protected. LED output indicator. Terminal strip In/Out. ULusa/canada/CE listed.

L: 7-7/8" **W:** 4-3/8" **H:** 2" **WT:** 1.72

STOCK #	DESC.	1EA
18367-PS	9V/16.7A Meanwell Supply	$35.00

24V @ 1.1A SUPPLY

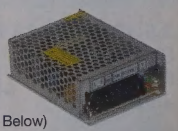


MFG: MEANWELL
P/N: S-25-24
Input: 100-240VAC 50/60Hz
Output: 24VDC @ 1.1A
Specifications/Features:
Enclosed regulated switching supply. Over Voltage & Current protected. 100mV max Ripple & Noise. LED output indicator. Terminal strip In/Out. UL/CE/TUV listed.

L: 3.9" **W:** 3.82" **H:** 1.42" **WT:** .81

STOCK #	DESC.	1EA
17720-PS	24V/1.1A Meanwell Supply	$18.95

POWER SUPPLIES/ CHARGER

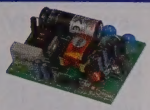


MFG: HENGFU
P/N: HF20W-SB series (See Below)
Input: 85-264VAC 50/60Hz.
Output: See below
Specifications/Features: 20W, Enclosed regulated switching supply with Charger for Lead Acid or Lithium battery. Auto switch to battery upon AC fail (UPS). Over Voltage, Current & Low Battery protected. LED output indicator. Terminal strip In/Out. CE listed.

L: 4-3/8" **W:** 3-1/8" **H:** 1-1/2" **WT:** .6

STOCK #	SERIES	OUTPUT #1	CHARGER	1EA
18116-PS	SB-12	12V/1.5A	13.8V/0.5A	$19.95
18117-PS	SB-24	24V/0.7A	27.1V/0.2A	$19.95

5V/2A DC MINI SUPPLY



MFG: ASTRODYNE
MODEL: OFM-0101
Input: 85-265VAC 47-440Hz
Output: 5VDC@ 2A
Specifications/Features: Regulated mini board supply .1% Line/3% load Reg. Over Voltage & Current protected. PC board/socket pins IN/Out. UL/canada/us/TUV/CE
L: 2-5/8" **W:** 1-3/4" **T:** 1" **WT:** .1

STOCK #	DESC.	1EA
17635-PS	5VDC Astrodyne Supply	$5.95

28VDC/2A SUPPLY

MFG: CONDOR
P/N: GPM55-28
Input: 100-240VAC 47-63Hz
Output: 28VDC@ 2A
Specifications/Features: Open switching supply. Over voltage/current protected, 2% Line/Load Regulation, 280mV Noise. Header pins In/Out. UL/CSA/VDE Listed.
L: 6-1/4" **W:** 4" **H:** 1-3/4" **WT:** 1.3

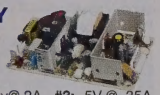
STOCK #	DESC.	1EA	10EA
17186-PS	28V @ 2A Condor	$14.95	$12.95

+5VDC & +-12V SUPPLY

MFG: AUTEC
P/N: UPS40-3003
Input: 115V/230VAC 50/60Hz
Outputs: #1: +5V @ 3A **#2:** +12V @ 2A **#3:** -12V @ .3A
Specifications/Features: 40W max output.
Open frame, regulated switching supply. Over current protection. Header pins in & out. UL/CSA/TUV listed.
L: 5-3/8" **W:** 3-9/16" **H:** 1-1/4" **WT:** .6

STOCK #	DESC.	1EA	10+EA
16693-PS	3 Output Autec Supply	$12.95	$10.95

+-5V & 12V SUPPLY



MFG: ARTESYN
P/N: NFN40-7607
Input: 100-240 VAC 47-440Hz
Outputs: #1: +5V @ 3A **#2:** +12v@ 2A **#3:** -5V @ .35A
Specifications/Features: Open switching supply. .2% Line/2% Load Reg +5V, 5% others. Over current protected. Header pins In/Out. UL/CSA/VDE listed
L: 5" **W:** 3" **H:** 1-1/4" **WT:** .7

STOCK #	DESC.	1EA
17721-PS	+ &-5V & +12V Supply	$5.95

+5V/4A, +12V/.1A POWER SUPPLY

MFG: FORTRON/SOURCE
P/N: SLD20W
Input: 120VAC 47-63Hz
Outputs: #1: +5V @ 4A **#2:** +12V @ .1A
Specifications/Features:
Open frame linear supply, .250 quick connect terminals for AC input, Header pins for output.
L: 4-7/8" **W:** 4" **T:** 2-1/2" **WT:** 3

STOCK #	DESC.	1EA	20+EA
15347-PS	+5V & +12V Supply	$10.95	$9.95

5V/12A POWER SUPPLY

MFG: SPC TECH.
P/N: SPC11486
Input: 100/120/220-240VAC 47-63Hz
Output: 5V @ 12A
Specifications/Features:
Open frame linear supply, UL/CSA/TUV/CE listed+-.05% Regulation, Full rated to 50°C, Foldback Current Limit, no minimum load, Remote Sense, UL/CSA/TUV/CE listed.
L: 9" **W:** 4-15/16" **T:** 3-1/4" **WT:** 7.8

STOCK #	DESC.	1EA
17638-PS	5V@10A Power Supply	$24.95

24V @ 4.5A SUPPLY

MFG: FUJI/XEROX
P/N: 105K91480K4
Input: 100/115 AC 50/60Hz
Output: 24V @ 4.5A
Specifications/Features:
Enclosed switching supply. Over Voltage & Current protected. Header connectors for input/Output.
L: 13-3/8" **W:** 4" **H:** 2-1/2" **Ship WT:** 3

STOCK #	DESC.	1EA
17417-PS	24V @ 4.5A Supply	$15.95

5V/4A SUPPLY

MFG: AULT
MODEL: SUBVM1020B05
Input: 120VAC 60Hz
Output: 5VDC@ 20W (4A)
Specifications/Features:
Regulated board supply. Subassembly for desktop supply. No mounting frame or input/output terminals. Wires or terminals must be soldered to board.
L: 3-9/16" **W:** 2-5/16" **T:** 1-3/8" **WT:** .5

STOCK #	DESC.	1EA
17629-PS	5VDC/20W Sub Supply	$5.95

58V @ 1A SUPPLY

MFG: VOLGEN
P/N: SP50U-58S
Input: 100-230 VAC 50/60Hz
Output : 58V @ 1.0A
Specifications/Features: Enclosed swtiching supply. .5% line, 1% load reg. 1% P/P noise/Ripple. Over load and over voltage protected. Screw terminals. UL/CANADA/USA/CE listed.
L: 7" **W:** 3-1/2" **H:** 1-1/4" **WT:** 1

STOCK #	DESC.	1EA	10+EA
15814-PS	58V/1A Volgen Supply	$19.95	$18.95

24V/7.2A SUPPLY

MFG: MULTICOMP
P/N: SPC11478
Input: 100/120/215/230-240VAC 47-63Hz
Output: 24VDC @ 7.2A Max.
Specifications/Features:
Open frame linear supply. +-.05% Line /.05% Load Regulation (50% change), Overvoltage & Foldback Current Limit, Remote Sense, No minimum load, Rated to 50 Deg. "C" UL/canada/CSA/TUV/CE listed.
L: 14" **W:** 4-7/8" **H:** 3-1/2" **WT:** 12

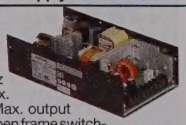
STOCK #	DESC.	1EA
18424-PS	Multicomp 24V/7.2 A Supply	$89.95

12V/4A DC BRUTE SUPPLY

Input: 115VAC 60Hz
Output: 12VDC@ 4A
Specifications/Features: Unregulated DC supply designed for use in custom equipment. Open supply has attached 2 wire line cord with in line panel mount switch. 4in. output wires with socket pin housing.
L: 4-7/8" **W:** 2-1/2" **HT:** 2-1/4" **WT:** 2.5

STOCK #	DESC.	1EA
17636-PS	12V/4A Brute Supply	$7.95

24V/8.4A SUPPLY



MFG: MULTICOMP
P/N: MC13592
Input: 115/240VAC 50/60Hz
Output: 24VDC @ 8.4A Max.
Specifications/Features: Max. output 200W with 24CFM Airflow. Open frame switching supply. +-.5% Line /2.0% Load Regulation, Current Limit, Remote Sense, Fan connector. No minimum load, Rated to 70 Deg. "C", UL/canada/usa/TUV/CE listed.
L: 9" **W:** 5" **H:** 2-9/16" **WT:** 2.7

STOCK #	DESC.	1EA
18423-PS	Multicomp 24V/8.4 A Supply	$ 99.95

12VDC @ 9A POWER SUPPLY

MFG: INTER. POWER SOURCES
P/N: PU110-12A
Input: 100-240VAC 47-63 Hz
Output: 12VDC @ 9A
Specifications/Features: Requires 25CFM air flow for full rated output of 110W. 80Watts free air.
Open frame switching supply. .5% line/ 2% load regulation. Header pins In/Out. UL/CSA/TUV/CE listed.
L: 7" **W:** 4-1/4" **T:** 2 **WT:** 1.4

STOCK #	DESC.	1EA
17095-PS	12V @ 9A IPS Supply	$19.95

24V @ 1A SUPPLY

MFG: POWER-ONE
P/N: SP612
Input: 115/230 VAC 50/60Hz
Output: 24VDC @ 1A
Specifications/Features: Switching supply with overvoltage & current limit protection. 6" wire input leads. 4in. output leadswith header socket. UL/CSA/TUV
L: 5" **W:** 3" **T:** 1-1/2" **WT:** .55

STOCK #	DESC.	1EA	12+EA
18289-PS	24V @1A Power-1 Supply	$9.95	$8.95

12V@17A SUPPLY

MFG: PHIHONG
P/N: PSM204-120 (AC)
Input: -100-240VAC 50/60Hz.
Output: 12V @ 17A
Specifications/Features: Max. output 204W with 36CFM Airflow. P.C. board switching supply. 1% line Reg./5% load Reg, 200mVP/P noise/ripple. Header pins for input power, 6in. cable with single 2 X7 (14) pin output/ control connector. UL/us/canada/TUV/CE
L: 7-3/4" **W:** 4" **H:** 1-1/4" **WT:** 1.3

STOCK #	DESC.	1EA	25+EA
18091-PS	12V@17A Power Supply	$14.95	$12.95

5V/9A, SUPPLY

MFG: MULTICOMP
P/N: SPC11485
Input: 100/120/215/230-240VAC 47-63Hz
Output: 5VDC @ 9A Max.
Specifications/Features:
Open frame linear supply. +-.05% Line /.05% Load Regulation (50% change), Overvoltage & Foldback Current Limit, Remote Sense, No minimum load, Rated to 50 Deg. "C" UL/canada/CSA/TUV/CE listed.
L: 7" **W:** 4-7/8" **H:** 3-1/2" **WT:** 7

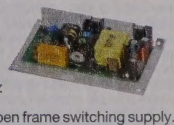
STOCK #	DESC.	1EA
18426-PS	Multicomp 5V/9 A Supply	$49.95

5.1V & ±12V POWER SUPPLY

MFG: ARTESYN
P/N: NAN25-7628
Input: 100V-240VAC 50/60 HZ
Outputs: #1: +5.1VDC @ 2A
#2: +12V @ 0.2A **#3:** -12V @ 0.2A
Specifications/Features: Max output 25W.
Open frame, switching supply. Over current protection. Header connectors in/out. UL/CSA/VDE/CE listed
L: 5" **W:** 3" **H:** 1-3/8" **WT:** .41

STOCK #	DESC.	1EA	40+EA
15871-PS	Artesyn 5 &+-12 Supply	$5.95	$4.95

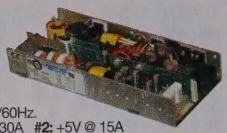
12V @ 3.5A POWER SUPPLY



MFG: ILAN
P/N: F1651
Input: 100-240VAC 50/60 Hz
Output: 12VDC @3.5A
Specifications/Features: Open frame switching supply. Over Voltage & Current protected. Header pins In/Out. UL/canada Listed.
L: 5" **W:** 3" **H:** 1-1/8" **WT:** .4

STOCK #	DESC.	1EA	20+EA
16741-PS	12V Ilan Power Supply	$6.95	$5.95

6 OUTPUT SUPPLY



MFG: POWER-ONE
P/N: SP647
Input: 85-250VAC 50/60Hz.
Outputs: #1: +3.3V @ 30A **#2:** +5V @ 15A **#3:** +12V @ 3A **#4:** +5V @ 1A **#5:** -12V @ 1A **#6:** -12V @ 3A
MAX V1+V2 current: 40A
150W Max. output with 300 LFM air Flow
Specfications/Features: Power Factor corrected "U" frame switching supply similiar to MPU150 series. 1.5% Reg on 3.3V Output, 1% Reg. on 5V Output, 7% Reg. on all others. UL/CSA/TUV/CE Listed, Remote sense on V1 & V2
I/O connectors
Input: Molex 41695 series
Output V1 & 2 : Terminal strip
Other Outputs: Molex 41695 series
Control: Molex 5264-N
L: 9-1/2" **W:** 4-1/4" **H:** 1-1/2" **WT:** 2.7

STOCK #	DESC.	1EA	5+EA
17847-PS	6 Output Power-1	$34.95	$29.95

3 OUTPUT SUPPLY

360° VIEW @MPJA.COM

MFG: EOS
P/N: VLT130-3100-S2
Input: 90-263 VAC 47-63Hz
Output #1: +3.3V @ 16A **#2:** +5V @ 14A **#3:** +12V @ 1.5A
Specifications/Features: Requires 32CFM cooling. Power Fail output, Remote Sense on #1 & 2 Outputs, Current share for paralleling (#1 & #2) Over current protection. Header Pins AC Input, Terminal Strip Outputs, Header for Share & remote Sense connections. UL/canada/usa/VDE/CE Listed.
L: 5" **W:** 3" **T:** 1" **WT:** .6

STOCK #	DESC.	1EA	50EA
18090-PS	3 Output EOS Supply	$10.95	$9.95

130W 1U SUPPLY

MFG: DELTA for SUN
P/N: DPS-129AB A/300-1448
STYLE: CUSTOM 1U
Input: 100-240 VAC 47-63Hz
Output #1: +3.3V @ 10A **#2:** +5V @ 15A **#3:** +12V @ 6A **#4:** -12V @ .4A **#5:** +5VDCSB @ .25A
Specifications/Features: 75W Max combined +5V & +3.3V. 1U switching supply for Sun Netra(R) equipment. Power ON/STANDBY switch & standard IEC input power connector on back. Single 2X7 mother board connector (+3.3V/+5V/Com.), Two 4 (2 X 2) pin mini connectors (+5V/+12V/Com) & one 1 X 17 Pin control connector. UL/canada/usa/TUV/CE listed.
L: 10" **W:** 4-3/8" **H:** 1-9/16" **WT:** 2.9

STOCK #	DESC.	1EA
17602-PS	125W 1U Sun Power Supply	$12.95

400W ATX/SATA

MFG: A-POWER
STYLE: AGS400-1
Input: 115/230 VAC 50/60Hz
Output #1: +3.3V @ 26A **#2:** +5V @ 35A **#3:** +5VDCSB @ 2A **#4:** +12V @ 12A **#5:** +12V @ 20A **#6:** -12V @ .5A
Specifications/Features: 400W Max Combined Output. Rear fan, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector, range & power switch on back. Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 3 SATA drive connectors, 3 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. CE, FCC Listed. ROHS Compliant.
W: 5-7/8" **D:** 5-3/4" **H:** 3-3/8" **WT:** 2.18

STOCK #	DESC.	1EA
18413-PS	400W A-Power ATX Supply	$24.95

350W MICRO ATX SUPPLY

MFG: A POWER
P/N: AGS350M
STYLE: MICROATX
Input: 115/230 VAC 50/60Hz
Output #1: +3.3V @ 14A **#2:** +5V@14A **#3:** +12V @ 18A **#3:** -12V @ .6A **#4:** +5VSBDC @ 2A
Specifications/Features: Standard IEC input power connector on back. Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU Core connector, 1 PCIe 8 pin connector, 2 SATA drive connectors, 3 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. Bottom fan. CE Listed RoHS Compliant.
W: 4-7/8" **D:** 4" **H:** 2-1/2" **WT:** 2

STOCK #	DESC.	1EA
18412-PS	350W MicroATX Supply	$22.95

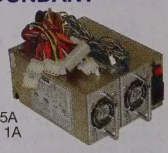
150W ATX SUPPLY

360° WEB

MFG: SEVENTEAM
P/N: ST-150MH
STYLE: ATX1.X 20Pin
Input: 110/220 VAC 50-60Hz
Output #1: +3.3V @ 6A **#2:** +5V @ 12A **#3:** +12V @ 5A **#4:** -12V @ .1A **#5:** -5V @ .1A **#6:** +5VSB @ 1.5A
Specifications/Features: 80W Max. combined +3.3 & 5V outputs. Mini ATX form factor 150W switching supply for P.C. systems. IEC input power connector, voltage range switch & Power switch on back . Standard 2X10 (20 Pin) mother board connector, 4 molex 4 pin IDE connectors & 2 mini 4 pin for FDD etc. UL/CSA/CE listed.
L: 5-1/4 **W:** 3-7/8" **H:** 2-1/2" **WT:** 2.2

STOCK #	DESC.	1EA
18034-PS	150W Mini ATX Supply	$5.95

250+250W ATX REDUNDANT SUPPLY



STYLE: ATX1.3 (20pin)
MFG: ETASIS
P/N: EPR-2251-6B112
Input: 110/220 VAC 50-60Hz
Output #1: +3.3V @ 15A **#2:** +5V @ 30A **#3:** -5V @ .5A **#4:** +12V @ 14A **#5:** -12V @ 1A **#6:** +5VDCSB @ 1.5A
Specifications/Features: 2 X 250W redundant, hot swap supply. 230W Max combined +5 &+3.3V output. ATX form factor 250W switching supply for P.C. systems/servers. Standard IEC input power connector, alarm silence switch & power switch on back. Single 2X10 mother board connector & 6 molex 4 pin connectors & 1 mini 4 pin for drives etc. Remote "Power" Green LED, Supply 1 & 2 fail Amber LEDs, "Fault" output signal leads and Remote Silence leads for remote switch all with 20+in leads. UL/TUV/CE listed.
W: 5-7/8" **D:** 7-1/2" **H:** 3-3/8" **WT:** 7.5

STOCK #	DESC.	1EA
17094-PS	250W X 2 ATX Supply	$29.95
17106-PS	Spare Hot Swap 250W Module	$8.95

400W ATX/SATA

MFG: A-POWER
STYLE: AGS400
Input: 115/230 VAC 50/60Hz
Output #1: +3.3V @ 26A **#2:** +5V @ 35A **#3:** +5VDCSB @ 2A **#4:** +12V @ 12A **#5:** +12V @ 20A **#6:** -12V @ .6A
Specifications/Features: Rear fan, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector, range & power switch on back. Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 1 SATA drive connector, 3 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. CE,FCC, ROHS Listed
W: 5-7/8" **D:** 5-3/4" **H:** 3-3/8" **WT:** 2.16

STOCK #	DESC.	1EA
17976-PS	400W A-Power ATX Supply	$22.95

+5V/3.7A, -5V/.05A, +12V/0.6A SUPPLY

MFG: VOLTEK
P/N: SPEC7188B
Input: 100-240VAC 50-60Hz
Outputs: #1: +5V @ 3.7A **#2:** +12V @ 0.6A **#3:** -5V @ 0.05A **#4:** +5VTrickle @ 0.1A
Specifications/Features:
Removed from new equipment. Enclosed switching supply. With Std. IEC power inlet connector. Overvoltage & current limit protection. 3in. output wires to 7 pin header socket. UL/CANADA/USA/CE listed.
L: 9" **W:** 2-1/8" **H:** 1-1/2" **WT:** 1.1

STOCK #	DESC.	1EA
11687-PS	Multi Output Voltek	$3.95

200W ATX SUPPLY

MFG: ASTEC
P/N: SA202-3530
STYLE: ATX-1.1(20pin)
Input: 110/220 VAC 50-60Hz
Output #1: +3.3V @ 14A **#2:** +5V @ 22A **#3:** -5V @ .5A **#4:** +12V @ 8A **#5:** -12V @ .8A **#6:** +5VDCSB @ .2A (23A Max combined +5 and +3.3V) ATX form factor 200W switching supply for replacement in P.C. & Machine tool systems. IEC input power connector & IEC Monitor power connector on back (NO POWER SWITCH).Single 2 X10 (20) pin mother board connector, 4 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. Fan on Back. UL/CSA/VDE listed.
L: 5-5/8" **W:** 5-7/8" **H:** 3-3/8" **WT:** 27

STOCK #	DESC.	1EA
17986-PS	200W ATX Power Supply	$9.95

260W COMPAQ SUPPLY

MFG: COMPAQ
P/N: 270647-001
STYLE: ATX-1.1(20pin)
Input: 110/220 VAC 50-60Hz
Output #1: +3.5V @ 10A **#2:** +5V @32A **#3:** -5V @ .15A **#4:** +12V @ 7A **#5:** -12V @ .15A **#6:** +5VDCSB @ 1.2A (170W Max combined +5 and +3.5V) ATX form factor 260W switching supply for replacement in Compaq systems. IEC input power connector on back (NO POWER SWITCH).Single 2 X10 (20) pin mother board connector, 4 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. Fan on Back. UL/TUV listed.
W: 6-1/2" **L:** 7" **H:** 3-7/8" **WT:** 2.7

STOCK #	DESC.	1EA
18078-PS	260W ATX Compaq Supply	$19.95

420W ATX/SATA

MFG: RAIDMAX
P/N: RX-420K
STYLE: ATX-20/24
Input: 115/230 VAC 50/60Hz
Output #1: +3.3V @ 26A **#2:** +5V @ 32A **#3:** +5VDCSB @ 2A **#4:** +12V @ 20A **#5:** -12V @ .8A **#6:** -5V @ .5A
Specifications/Features: Front & Rear fan, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector, Voltage range switch & power switch on back,. Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 1 SATA drive connector, 4 molex 4 pin IDE connectors, 2 mini 4 pin for FDD. CE Listed
W: 5-7/8" **D:** 7" (including Fan) **H:** 3-3/8" **WT:** 2.5

STOCK #	DESC.	1EA
18031-PS	420W RaidMax ATX Supply	$14.95

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400W ATX/SATA

MFG: GEN-MAX
STYLE: ATX-20/24
Input: 115/230 VAC 50/60Hz
Output #1: +3.3V @ 22A
#2: +5V @ 28A **#3:** +5VDCSB @ 2A
#4: +12V @ 14A **#5:** -12V @ .6A **#6:** -5V @ .6A
Specifications/Features: Rear fan, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector, range switch on back (NO Power Switch). Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 1 SATA drive connector, 3 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. CE Listed
W: 5-7/8" **D:** 5-3/4" **H:** 3-3/8" **WT:** 1.95

STOCK #	DESC.	1EA
17981-PS	400W Gen-Max ATX Supply	$22.95

450W ATX/SATA

MFG: BLUE STAR
P/N: BL-450-24
STYLE: ATX-20/24
Input: 115/230 VAC 50/60Hz
Output #1: +3.3V @ 28A
#2: +5V @ 34A **#3:** +5VDCSB @ 2A **#4:** +12V @ 14A
#5: -12V @ .8A
Specifications/Features: Rear fan, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector, range & power switches on back. Single 2 X10 (20) pin with a "Side by Side" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 1 SATA drive connector, 4 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. CE FCC, CB Listed
W: 5-7/8" **D:** 5-3/4" **H:** 3-3/8" **WT:** 2.1

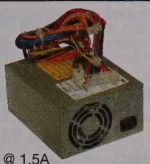
STOCK #	DESC.	1EA	10EA
17978-PS	450W BlueStar Supply	$24.95	$22.95

450W ATX/SATA

MFG: GEN-MAX
STYLE: ATX-20/24
Input: 115/230 VAC 50/60Hz
Output #1: +3.3V @ 28A
#2: +5V @ 34A **#3:** +5VDCSB @ 2A
#4: +12V @ 15A **#5:** -12V @ .6A **#6:** -5V @ .6A
Specifications/Features: Top & Rear fans, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector, range switch on back (NO Power Switch). Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 1 SATA drive connector, 6 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. CE Listed
W: 5-7/8" **D:** 5-7/8" **H:** 3-1/2" **WT:** 2.2

STOCK #	DESC.	1EA
17982-PS	450W Gen-Max ATX Supply	$24.95

465W SERVER SUPPLY



MFG: NMB
MODEL: PG465-20ASV01110
P/N: Sun XR004A465WSW
STYLE: SSI
Input: 100-240 VAC 47-63Hz
Output #1: +3.3V @ 35A
#2:+5V @ 18A **#3:** +5VDCSB @ 1.5A
#4: +12V @ 24A **#5:** -12V @ .5A
(200W Max combined +5V & 3.3V output)
Specifications/Features: SSI form factor switching supply for SUN-MICRO Server. Standard IEC input power connector on back. Single 2 X12 (24) pin mother board connector. Aux 2 X 5 (10) pin +5 & +12V connector, a 3 X 2 (6) pin +12V male connector, 1 molex 4 pin IDE connector & a 2 X 2 (4)pin +5 & +12V connector. Back fan. UL/canada/usa/TUV/CE listed.
W: 6" **D:** 7-1/8" **H:** 3-7/16" **WT:** 6

STOCK #	DESC.	1EA
17512-PS	465W Server Supply	$14.95

480W ATX/SATA/PCI

MFG: GEN-MAX
STYLE: ATX-20/24
Input: 115/230 VAC 50/60Hz
Output #1: +3.3V @ 32A
#2: +5V @ 36A **#3:** +5VDCSB @ 2A
#4: +12V @ 16A **#5:** -12V @ .6A **#6:** -5V @ .6A
Specifications/Features: Top & Rear fans, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector, range switch on back (NO Power Switch). Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 1 PCIe 6 pin Connector, 1 SATA drive connector, 6 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. CE Listed
W: 5-7/8" **D:** 5-7/8" **H:** 3-1/2" **WT:** 2.5

STOCK #	DESC.	1EA
17983-PS	480W Gen-Max ATX Supply	$26.95

550W ATX/SATA

MFG: A-POWER
STYLE: AGS550
Input: 115/230 VAC 50/60Hz
Output #1: +3.3V @ 22A
#2: +5V @ 32A **#3:** +5VDCSB @ 2A
#4: +12V @ 24A **#5:** +12V @ .6A **#6:** -12V @ .5A
Specifications/Features: 550W Max Combined Output. Bottom & Rear fans, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector, range & power switch on back. Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 4 SATA drive connectors, 4 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. CE, FCC Listed. ROHS Compliant.
W: 5-7/8" **D:** 5-3/4" **H:** 3-3/8" **WT:** 2.5

STOCK #	DESC.	1EA
18415-PS	550W A-Power ATX Supply	$29.95

575W ATX/PCIe SATA SUPPLY

MFG: LOGISYS
STYLE: ATX-20/24
Input: 115/230 VAC 50/60Hz
Output #1: +3.3V @ 38A
#2: +5V @ 40A **#3:** +5VDCSB @ 2A
#4: +12V @ 25A **#5:** -12V @ .8A
Specifications/Features: Dual fan, switching supply for P.C. systems. IEC input power connector,
Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU Core connector, two 6 pin PCIe connectors, 1 SATA drive connectors, 6 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. Top & Back Fans. UL/CSA/TUV/CE listed.
W: 5-1/2" **D:** 5-3/4" **H:** 3-1/2" **WT:** 3.5

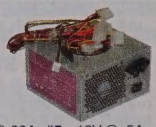
STOCK #	DESC.	1EA
17717-PS	575W ATX Logisys Supply	$39.95

600W ATX/SATA/ PCI

MFG: A-POWER
P/N: APVA600
STYLE: ATX-20/24
Input: 115/230 VAC 50/60Hz
Output #1: +3.3V @ 25A
#2: +5V @ 42A **#3:** +5VDCSB @ 2.5A **#4:** +12V @ 27A
#5: -12V @ .5A
Specifications/Features:
Top & Rear fans, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector, range & power switches on back. Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 1 PCIe 6 pin Connector, 2 SATA drive connectors, 6 molex 4 pin IDE connectors, 1 mini 4 pin for FDD
W: 5-7/8" **D:** 6" **H:** 3-1/4" **WT:** 2.8

STOCK #	DESC.	1EA
17975-PS	600W A-Power ATX Supply	$32.95

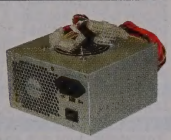
600W ATX/SATA



MFG: ECHO-STAR
STYLE: ATX-20/24
Input: 115/230 VAC 50/60Hz
Output #1: +3.3V @ 45A
#2: +5V @ 42A
#3: +5VDCSB @ 3A **#4:** +12V @ 22A **#5:** -12V @ .8A
Specifications/Features: Dual fans, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector on back. Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 1 SATA drive connector, 4 molex 4 pin IDE connectors, 2 mini 4 pin for FDD. Back & top fans. CE listed.
W: 6" **D:** 6" **H:** 3-1/4" **WT:** 3

STOCK #	DESC.	1EA
17714-PS	600W ATX Supply	$39.95

650W ATX/SATA



MFG: ECHO-STAR
P/N: ES-650-24
STYLE: ATX-20/24
Input: 115/230 VAC 50/60Hz
Output #1: +3.3V @ 45A
#2: +5V @ 42A **#3:** +5VDCSB @ 3A **#4:** +12V @ 22A
#5: -12V @..8A
Specifications/Features: Top & Rear fans, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector, range & power switches on back. Single 2 X10 (20) pin with a "Side by Side" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 1 SATA drive connector, 4 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. CE, CB Listed
W: 5-7/8" **D:** 6" **H:** 3-1/2" **WT:** 2.6

STOCK #	DESC.	1EA	10+EA
17980-PS	650W ATX Supply	$34.95	$32.95

680W ATX SUPPLY/PCIe

MFG: ECHO STAR
STYLE: ATX (20 +4pin)
Input: 115/230VAC 50/60Hz
Outputs: #1: +3.3V @ 35A
#2: +5V @ 50A **#3:** +12V @ 26A
#4: -5V @ 0.6A **#5:** -12V @ 1.0A **#6:** +5V SB @ 2.5A
Specifications/Features: Single Blue LED lighted fan, 680W switching supply for P.C. systems. IEC input power connector,
Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU Core connector, 1 PCIe 6 pin connector, 2 SATA drive connectors, 6 molex 4 pin IDE connectors, 1 mini 4 pin for FDD.
Single Blue lighted fan.
W: 6" **D:** 6-1/4" **T:** 3-1/4" **WT:** 2.9

STOCK #	DESC.	1EA
17715-PS	680W ATX Supply/PCIe	$45.95

680W ATX/SATA/PCI

MFG: BLUE STAR
P/N: ES-680-GD
STYLE: ATX-20/24
Input: 115/230 VAC 50/60Hz
Output #1: +3.3V @ 30A
#2: +5V @ 35A **#3:** +5VDCSB @ 2.5A
#4: +12V @ 38A **#5:** -12V @ .5A
Specifications/Features: Top & Rear fans, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector, range & power switches on back. Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 1 PCIe 6 Pin connector, 2 SATA drive connectors, 6 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. CE FCC, CB Listed
W: 5-7/8" **D:** 5-3/4" **H:** 3-1/2" **WT:** 2.6

STOCK #	DESC.	1EA
17979-PS	680W BlueStar ATX Supply	$34.95

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3.6V @ 2.2A SUPPLY

MFG: KETI
P/N: SA06-8S03R-V
Input: 100 -240VAC 50- 60Hz
Output: 3.6VDC @ 2.2A
Specifications/Features: Desktop switching supply with overvoltage & current limit protection. IEC input AC connector, 6ft output cord with 4/1.7mm coaxial plug Center +. LED power indicator. UL/canada/usa/TUV/CE RoHS listed. POWER CORD NOT INCLUDED.
ORDER POWER CORD: Stock # 7378 WI
L: 3-3/4" **W:** 2" **T:** 1-3/8" **WT:** .41

STOCK #	DESC.	1EA
18357-PS	3.6V @2.2A Supply	$4.95

5V @ 500MA SUPPLY

MFG: SINO-AMERICAN
P/N: 217-03814
Input: 100-240 VAC 50/60Hz
Output: 5VDC@500mA
Specifications/Features:
Switching desktop supply with overvoltage & current limit protection. Std. IEC input connector. 6ft output cord with 5.5 OD/2.1mm ID/10mm coaxial plug Center +. UL/CSA/VDE/CE listed. AC CORD NOT INCLUDED.
MATING POWER CORD: ORDER Stock # 7378-CB
L: 3-1/8" **W:** 1-7/8" **T:** 1-3/8" **WT:** .3

STOCK #	DESC.	1EA
18606-PS	5V/500mA Desktop Supply	$1.95

5V @ 4A SUPPLY

MFG: DELTA for CISCO
P/N: 34-1524-02
Input: 100-240 VAC 50-60Hz
Output: 5VDC 4A
Specifications/Features: Switching desktop supply with overvoltage & current limit protection. IEC input AC connector. 4ft output cord with 8Pin (2X4) Molex "Micro-Fit " connector. UL/canada/usa/CE listed. POWER CORD NOT INCLUDED. ORDER CORD: Stock # 7378-CB
L: 4-1/2" **W:** 2-1/2" **H:** 1-3/16" **WT:** .7

STOCK #	DESC.	1EA	30+EA
18464-PS	5V @ 4A Cisco Supply	$5.95	$4.95

12V @ 1.25A SUPPLY

MFG: DVE
P/n: DSA-0151-12S
Input: 100-120 VAC 50/60Hz
Output: 12VDC @ 1.25A
Specifications/Features: Switching plug supply with overvoltage & current limit protection. Non-Polarized 2 blade input. 6ft output cord with 10mm X 5.5/2.1mm ID coaxial right angle plug Center +. UL/canada/usa listed.
L: 3-1/8" **W:** 2" **T:** 1-1/4" **WT:** .34

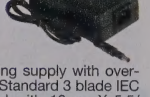
STOCK #	DESC.	1EA
18469-PS	12V @1.25A Plug Supply	$5.95

12V @ 5A SUPPLY

MFG: DSEC
P/N: CH1205
Input: 100-240 VAC 50/60Hz
Output: 12VDC @ 5A
Specifications/Features: Desktop switching supply with overvoltage & current limit protection. Polarized 3 wire IEC Class 1 Type C6 input connector. 4ft output cord with ferrite filter & 10mm X 5.5/2.5mm ID coaxial plug Center +. CE listed. POWER CORD INCLUDED.
L: 4-1/2" **W:** 2" **H:** 1-1/4" **WT:** .8

STOCK #	DESC.	1EA	50EA
18599-PS	12V @ 5A Supply	$15.95	$14.95

15V @ 2.67A SUPPLY



MFG: LITEON
P/N: PA-1500-1 Z
Input: 100-250 VAC 47-63Hz
Output: 15VDC @ 2.67A
Specifications/Features: Switching supply with overvoltage & current limit protection. Standard 3 blade IEC input connector, 1m output cord with 10mm X 5.5/2.5mm ID coaxial plug Center +. UL/CSA/TUVlisted.
H: 5" **W:** 2-7/8" **T:** 1-5/8" **WT:** .9

STOCK #	DESC.	1EA
18568-PS	15V @ 2.67A Desktop Supply	$9.95

5V @ 2A SUPPLY

MFG: H/P
P/N: L2056-60001
Input: 100-240 VAC 50-60Hz
Output: 5VDC 2A
Specifications/Features: Switching desktop supply with overvoltage & current limit protection. Non-Polarized 2 wire IEC Type 2- input connector. 6ft output cord with 10mm long X 4mm/1.7mm ID coaxial plug Center +. UL/canada/usa/TUV/CE listed. POWER CORD NOT INCLUDED. ORDER CORD: Stock # 15447-CB
L: 3-5/8" **W:** 1-5/8" **H:** 1-1/8" **WT:** .28

STOCK #	DESC.	1EA	10+EA
18448-PS	5V @ 2A h/p Supply	$8.95	$7.95

5V @ 1A SUPPLY

MFG: PHIHONG
P/N: PSAA05A-050
Input: 100-240 VAC 50/60Hz
Output: 5VDC @ 1A
Specifications/Features: Switching plug supply with overvoltage & current limit protection. Non-Polarized 2 blade input. 6ft output cord with USB Mini-B Plug. UL/canada/usa listed.
L: 2-3/4" **W:** 1-1/8" **D:** 1-1/2" **WT:** .2

STOCK #	DESC.	1EA
18611-PS	5V @1A Plug Supply	$4.95

9V @ 1A SUPPLY

MFG: KENWOOD
Input: 115 VAC 50/60Hz
Output: 9VDC @ 1A
Specifications/Features: Switching plug supply with overvoltage & current limit protection. Non-Polarized 2 blade input. 6ft output cord with 4.7/1.7mm ID coaxial right angle plug Center +. UL/canada/usa listed.
L: 2-7/8" **W:** 2" **T:** 1-1/4" **WT:** .23

STOCK #	DESC.	1EA
18254-PS	9V @1A Plug Supply	$2.95

12V @ 1.5A SUPPLY

MFG: TEN PAO
P/N: S018BU1200150
Input: 100-240 VAC 50/60Hz
Output: 12VDC @ 1500mA (1.5A)
Specifications/Features: Switching plug supply with overvoltage & current limit protection. Non-Polarized 2 blade input. 6ft output cord with 10mm L X 5.5/2.5mm ID coaxial plug Center +. UL/canada/usa listed.
L: 2-7/8" **W:** 1-3/4" **T:** 1-1/2" **WT:** .3

STOCK #	DESC.	1EA
18668-PS	12V @1.5A Plug Supply	$6.95

16V @ 3.36A SUPPLY

MFG: FUJITSU
P/N: CA01007-0610
Input: 100-240 VAC 47-63Hz
Output: 16VDC @ 3.36A
Specifications/Features:
Switching desktop supply with overvoltage & current limit protection for Milan Notebooks. Non-polarized 2 wire IEC Type 2-C8 input connector. 6ft output cord with ferrite filter & with EIAJ-5320A Type 5 Right Angle Connector (6.5mmOD with 1.4mm ctr. pin.) Center +. UL/canada/usa/TUV/CE listed. POWER CORD NOT INCLUDED. ORDER CORD: Stock # 15447-CB
L: 4-1/4" **W:** 2-3/8" **H:** 1-1/4" **WT:** .8

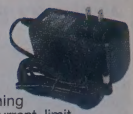
STOCK #	DESC.	1EA
18468-PS	16V @ 3.36A Fujitsu Supply	$14.95

18V @ 1A SUPPLY

MFG: ARIANA
P/N: ALL-181WU-18
Input: 100-240 VAC 50/60Hz
Output: 18VDC @ 1A
Specifications/Features: Switching plug supply with overvoltage & current limit protection. Non-Polarized 2 blade input. 6ft output cord with 3.5/1.3mm ID coaxial plug Center +. UL/canada/usa listed.
L: 2-7/8" **W:** 2" **T:** 1-5/8" **WT:** .4

STOCK #	DESC.	1EA
18253-PS	18V @1A Plug Supply	$6.95

5V @ 4A SUPPLY



MFG: OPENPEAK
P/n: OP 20004
Input: 90-132 VAC 60Hz
Output: 5VDC @ 4A
Specifications/Features: Switching plug supply with overvoltage & current limit protection. Non-Polarized 2 blade input. 6ft output cord with 10mm X 5.5/2.1mm ID Right Angle coaxial plug Center +. UL/canada/usa/listed. RoHS compliant .
H: 3-3/8" **W:** 1-1/2" **T:** 2-1/4" **WT:** .3

STOCK #	DESC.	1EA
18520-PS	5V @ 4A Plug Supply	$6.95

6V @ 1.66A SUPPLY

MFG: PHIHONG
P/N: PSM-11R-060
Input: 100-120 VAC 50/60Hz
Output: 6VDC @ 1.66A
Specifications/Features: Switching plug supply with overvoltage & current limit protection. Non-Polarized 2 blade input. 6ft output cord with 10mm X 5.5/2.1mm ID coaxial plug Center +. UL/canada/usa/TUV/CE listed.
L: 2-3/4" **W:** 1-3/4" **T:** 1-1/4" **WT:** .3

STOCK #	DESC.	1EA
18477-PS	6V @1.66A Plug Supply	$5.95

9V @ 1.11A SUPPLY

MFG: FAIRWAY
P/N: VE10B-090
Input: 100-240 VAC 50/60Hz
Output: 9VDC@1.11A
Specifications/Features: Switching desktop supply with overvoltage & current limit protection. 2 wire IEC Type 2-C8 input connector. 6ft output cord with 5.5mm OD & 2.1mm ID Rt. Angle coaxial plug Center +. UL/canada/usa/TUV/CE listed. POWER CORD NOT INCLUDED. ORDER CORD: Stock #15447-CB
L: 3-3/8 **W:** 2-1/4" **H:** 1" **WT:** .6

STOCK #	DESC.	1EA	10+EA
17722-PS	9V/1.11A Desktop P/S	$5.95	$5.25

12V @ 4A SUPPLY

MFG: DSEC
P/N: LE9702B
Input: 100-240 VAC 50/60Hz
Output: 12VDC @ 4A
Specifications/Features: Desktop switching supply with overvoltage & current limit protection. Polarized 3 wire IEC Class 1 Type C6 input connector. 4ft output cord with ferrite filter & 10mm X 5.5/2.5mm ID coaxial plug Center +. CE listed. POWER CORD INCLUDED.
L: 4-1/2" **W:** 2" **H:** 1-1/4" **WT:** .74

STOCK #	DESC.	1EA	50EA
18598-PS	12V @ 4A Supply	$12.95	$11.95

19V @ 3.42A SUPPLY

MFG: DELTA
P/N: SADP-65KB D
Input: 100-240 VAC 47-63Hz
Output: 19VDC @ 3.42A
Specifications/Features: Switching desktop supply with overvoltage & current limit protection. Polarized 3 wire IEC Class 1 Type C6 input connector. 6ft output cord with ferrite filter & 5.5/2.5mm ID coaxial plug Center +. UL/canada/usa/TUV/CE listed.
POWER CORD NOT INCLUDED.
ORDER POWER CORD: Stock # 18069-CB
L: 4-1/8" **W:** 1-3/4" **H:** 1-1/8" **WT:** .5

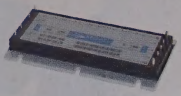
STOCK #	DESC.	1EA	50+EA
18226-PS	19V @ 3.42A Supply	$12.95	$10.95

+5V& -24V SUPPLY

P/N: RPS661429-1D
Input: 115VAC 60Hz
Outputs: #1: +5V @2.5A
#2: -24V @ 50mA
Specifications/Features: Desktop linear supply. Over current protected. 6ft input 3 wire cord, 6ft output cord with 5 pin DIN female. UL/CSA listed.
L: 6-3/8" **W:** 3-7/8" **H:** 2-3/4" **WT:** 3.4

STOCK #	DESC.	1+EA
14345-PS	+5V@2.5A & -24V/.05A Supply	$4.95

VICOR DC/DC CONVERTER MODULES



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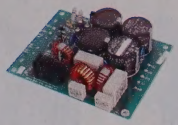


C

Compact, efficent, High frequencyDC/DC converters for modular systems. 05% line/load reg. 1% P/P ripple, short circuit protected, remote sense. Some feature integral heatsink. Booster modules are used with standard modules for increased output and feature disable input.

A: L: 4.6" W: 2.4" H: .5" **B:** L: 2.3" W: 2.4" H: .5" **C:** L: 6.25" W: 4.75" H: 1.75"

STOCK #	FIG.	MFG/MODEL #	INPUT NOM.	INPUT RANGE	OUTPUT VOLTS	AMPS/WATTS	DESCRIPTION	WT.	1EA	5+EA
17063-PS	A	Vicor VI-9082	48VDC	42-60	12V	7A/80W	Master Module	.5	$80.00	----
6654-PS	A	Vicor VI-B30-06	48VDC	42-60	5V	20A/100W	Booster Module	.5	$80.00	$69.00
7730-PS	A	Vicor VI-9080	48VDC	42-60	5V	10A/50W	Master Module	.5	$65.00	$49.00
7724-PS	A	Vicor	48VDC	42-60	5V	10A/50W	Booster Module	.5	$60.00	$49.00
11414-PS	C	Vicor VI-FPE6-CQX	120/240VAC	100-120/200-240	300V	500W	Front End Control	1.2	$99.95	$85.00

15V 13A DC/DC CONVERTER/ BOOSTER

MFG: RELIANCE
P/N: LMB32-CU
Input: 42-60V DC (48V)
Output: 15V DC 200W (13A)
Specifications/Features: Similar to Vicor VI-B32-CU. Requires +5VDC Logic for turn on. Booster module operates in parallel with standard module. Control is supplied from standard module. Short circuit protected.
L: 4.6" **W:** 2.4" **H:** .5" **WT:** .5

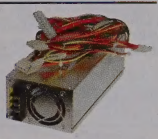
STOCK #	DESC.	1EA	5+EA
11325-PS	Reliance Module	$25.00	$22.95

12V@3.5A DC/DC CONVERTER

MFG: IPS
P/N: PD65-12-LC
Input: 10-30VDC (24V Nom)
Output: 12V @ 3.8A
Specifications/Features: Max. output 45W Enclosed, DC input switching supply. 0.5% line Reg./1% load Reg, 1%P/P noise/ripple. Header pins for Input & Output connections.
L: 6-3/4" **W:** 4-1/8" **H:** 2-1/8" **WT:** 1.3

STOCK #	DESC.	1EA	10+EA
18132-PS	2V@3.8A DC/DC Supply	$9.95	$8.95

DC/DC 300W ATX CONVERTER



MFG: SUNPOWER
P/N: SDX-6300-48
STYLE: Custom
Input: 36-72 VDC (48V Nom)
Output #1: +3.3V @ 20A
#2: +5V @ 30A **#3:** +5VDCSB @ 2A **#4:** +12V @ 16A **#5:** -12V @ 1A **#6:** -5V @ .6A
Specifications/Features: MAX Combined +3.3 & 5V =150W, Max Combined -5 & -12V=12W
Rear fan, DC input switching supply. Terminal Strip for input power Single 2 X10 (20) pin mother board connector, 7 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. CE Listed.
L: 9" **W:** 2-5/8" **H:** 4" **WT:** 3.4

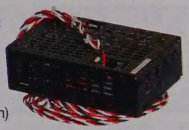
STOCK #	DESC.	1EA
18051-PS	300W DC/DC Computer Supply	$24.95

+5V & +-15VDC DC/DC CONVERTER

MFG: CALEX
P/N: 7524
Input: 40 to 60VDC
Outputs: #1: +5V @ 4.0A
#2: +15V @ 330mA **#3:** -15V @ 330mA
Specifications/Features:
Short circuit protected. 40mVp-p ripple, +-2% Line Reg. & 8% Load Reg.
L: 3" **W:** 2-9/16" **H:** 7/8" **WT:** .47

STOCK #	DESC.	1EA	12+EA
17412-PS	Calex Converter	$8.95	$7.95

12V@3.5A DC/DC CONVERTER



MFG: IPS
P/N: PD65-12-LC
Input: 10-30VDC (24V Nom)
Output: 12V @ 3.8A
Specifications/Features: Max. output 45W Factory Pre-Wired with 24in Output & a12ft. Input cable harness. Enclosed, DC input switching supply. 0.5% line Reg./1% load Reg, 1%P/P noise/ripple. Header pins for Input & Output connections.
L: 6-3/4" **W:** 4-1/8" **H:** 2-1/8" **WT:** 2.2

STOCK #	DESC.	1EA
18136-PS	12V@3.8A DC/DC Supply/Wired	$9.95

5V/10A DC/DC CONVERTER

MFG: DIGITAL POWER
MODEL: DP50-105
Input: 36-75VDC
Output: 5VDC@ 8A (10A @ 28CFM air)
Specifications/Features: Regulated DC/DC converter. .2% Line/3% load Reg. Over Voltage & Current protected. Header Pins IN/Out. UL/canada/us/TUV

L: 5" **W:** 3" **T:** 1-1/4" **WT:** .48

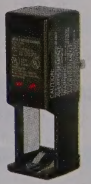
STOCK #	DESC.	1EA
17634-PS	48 to 5VDC/DC Converter	$5.95

+-15VDC DC/DC CONVERTER

MFG: INTRONICS
P/N: DCS100-3/8/2
Input: 36 to 72VDC
Output: #1: 15V @ 3.4A **#2:** 15V @ 3.4A
Specifications/Features: Isolated Outputs, Short circuit protected. Remote Sense, Outputs can be connected as + & -. Terminal strip for input & output. 15% Min Load.
L: 9-1/2" **W:** 4-1/2" **H:** 2-1/4" **WT:** 3.1

STOCK #	DESC.	1EA
18603-PS	Intronics DC/DC Converter	$18.95

"AA" NI-CAD/NI-MH CHARGER



P/N: V-888N
Input: 120 VAC 50/60Hz
Output: 2.4VDC
Specifications/Features: Wall plug unit for charging 2 or 4 "AA" rechargeable NI-CAD or NI-MH cells. UL/canada/usa listed.
L: 4-1/8" **W:** 1-1/2" **D:** 1-3/8" **WT:** .3

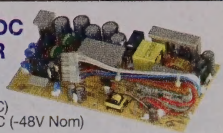
STOCK #	DESC.	1EA
16414-PS	"AA" Battery Charger	$2.95

QUAD OUTPUT DC/DC CONVERTER

MFG: POWER-ONE
P/N: MDU150-S254
Input: 36-75VDC.
Outputs: #1: +3.3V @ 15A **#2:** +5V @ 30A **#3:** 12V @ 6A **#4:** 12V @ 2A
MAX Combined V1 & V2= 30A
MAX Combined V3 & V4= 6A
200W Max. output with 300 LFM air Flow
Specfications/Features: DC Input "U" frame switching supply. 1.5% Load Reg on 3.3V Output, 1% Reg. on 5V Output, 7% Reg. on all others. UL/CSA/TUV Listed, Remote sense on V1 & V2
I/O connectors
Input: Molex 41695 series
Output V1 & 2 : 8-32 Terminal strip
Other Outputs: Molex 41695 series
Control: Molex 5268-N
L: 8" **W:** 4-1/4" **H:** 1-1/2" **WT:** 2.2

STOCK #	DESC.	1EA
18248-PS	4 Output Power-1 DC/DC	$14.95

12V@17A DC/DC CONVERTER



MFG: PHIHONG
P/N: PSM204-120 (DC)
Input: -40.5to -72 VDC (-48V Nom)
Output: 12V @ 17A
Specifications/Features: Max. output 204W with 36CFM Airflow. DC input switching supply. 1% line Reg./5% load Reg, 200mVP/P noise/ripple. Header pins for input power, 6in. cable with single 2 X7 (14) pin output/control connector. UL/us/canada/TUV/CE Listed. DATA. SUPPLY HAS A -48V INPUT POLARITY/GROUNDING MUST BE OBSERVED
L: 7-3/4" **W:** 4" **H:** 1-1/4" **WT:** 1.2

STOCK #	DESC.	1EA
18093-PS	12V@17A DC/DC Supply	$9.95

RECHARGABLE BATTERIES

Sealed Lead/Acid gell cells with .187 Quick connect terminals. For general purpose use in UPS systems, Alarms, Portable lighting. 20hr capacity rating.
17280: 2.8"L X 1.9" W X 4.2" H
14817: 6"L X 1.4" W X 3.9" H
14819: 6"L X 2.6" W X 3.9" H

STOCK #	DESC.	WT.	1EA	5+EA
17280-BT	6V@4A (NP4-6)	2	$7.95	$7.45
14817-BT	6V@8A (NP8-6)	4.5	$18.95	$17.95
14819-BT	12V@7A (NP7-12)	6	$20.95	$19.95

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G

ALL PLUG/DESKTOP SUPPLIES LISTED HERE: 120VAC/60HZ INPUT UNREGULATED DC OUTPUT

STOCK #	FIG.	VOLTS	AMPS	TERMINATION (ID X OD)	LEN.	CLR.	DIM. L: X W: X D:	MANU./PART NUMBER	LISTED	WT.	1EA	12+EA
18293-PD	G	5VDC	2.2A	3.0mm /1.0mm - Coaxial-Ctr. Pos.	4'	BLK	3-1/8" x 2-1/4" x 2"	Hon-Kwang/D05-22	UL/us/can	1.6	$3.95	-----
17840-PD	D	6VDC	.1A	5.5mm /2.5mm - Coaxial-Ctr. Pos.	6'	BLK	2" x 1-3/8" x 1-3/8"	Elect.Etc./WD1B100LCP	UL/CSA	.26	$2.95	-----
15178-PD	B	6VDC	.5A	4mm /1mm - Coaxial-Ctr. Pos.	6'	BLK	3" x 1-3/4" x 1-7/8"	AD6500RDU		.9	$2.25	$1.95
16228-PD	C	6VDC	.8A	5.5mm/2.5mm - Rt. Ang.Coaxial-Center Pos.	6'	WHT	2-5/8" x 2" x 1-3/4"	Otres/CX06V800	UL/CSA	.7	$4.95	-----
17625-PD	E	6VDC	1.5A	5.5mm/2.5mm - Coaxial-Ctr. Pos.	6'	BLK	2-5/8" x 2-1/4" x 2"	Ault/P48061500A000G	UL/CSA	.9	$3.25	$2.95
17556-PD	D	7.5VDC	.03A	5.5mm/2.1mm- Coaxial-Ctr. Pos.	5'	BLK	2" x 1-3/8" x 1-3/8"	Metagram/SS-75031	UL/CSA	.27	$1.95	-----
17558-PD	D	7.5VDC	.3A	5.5mm/2.1mm- Coaxial-Ctr. Pos.	5'	BLK	21/4" x 1-3/4" x 1-1/2"	Globtek/WD1C300L95CP	UL/CSA	.38	$3.95	-----
18251-PD	F	9VDC	.7A	4.7mm/1.7mm-Rt. Ang.Coaxial-Center Pos.	5'	BLK	2-1/2" x 2" x 1-5/8"	Kenwood	UL/CSA	.61	$3.95	$3.49

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ALL PLUG/DESKTOP SUPPLIES LISTED HERE: 120VAC/60HZ INPUT UNREGULATED DC OUTPUT

STOCK #	FIG.	VOLTS	AMPS	TERMINATION (ID X OD)	LEN.	CLR.	DIM. L: X W: X D:	MANU./PART NUMBER	LISTED	WT.	1EA	12+EA
17565-PD	J	12VDC	.15A	Stripped back Mini ZIP Cord	6'	WHT	2-3/8" x 1-3/4" x 1-7/8"	Lucent/4000T	UL	.4	$2.95	-----
18295-PD	M	12VDC	.3	5.5/1.3mm Coaxial-Ctr. Pos.	6'	BLK	2-3/4" x 2" x 1-3/4"	Sennheiser/WW120300-1DN	ULus/c	.68	$1.25	$0.99
17563-PD	M	12VDC	1.2A	5.5mm/2.5mm Coaxial-Ctr. NEG. Unfiltered	6'	BLK	3-1/4" X 2-3/8" X 2"	Power Drivers/AU48-120-120T	UL/CSA	1.2	$4.95	-----
18457-PD	L	12VDC	1.3A	EIAJ-5320 Type 4 5.5mmOD 1mmCtr. Pin +	9'	BLK	4" X 2-3/8" X 2-1/4"	Zhuhai(Microsoft) /96746	UL/CSA	1.6	$4.95	-----
18558-PD	O	15VDC	1A	5.5/2.5mm Coaxial - Center Pos.	6'	BLk	3-1/4" x 2-1/4" x 2"	Ault P48151000A000G	UL/CSA	1.3	$5.95	-----

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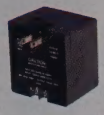
ALL PLUG/DESKTOP SUPPLIES LISTED HERE: 120VAC/60HZ INPUT UNREGULATED DC OUTPUT

STOCK #	FIG.	VOLTS	AMPS	TERMINATION (ID X OD)	LEN.	CLR.	DIM. L: X W: X D:	MANU./PART NUMBER	LISTED	WT.	1EA	12+EA
18344-PD	T	24VDC	.50A	3 Pin Mini DIN Plug	6'	BLK	3-1/4" X 2-1/4" X 1-7/8"	Group West/48D-24-500	UL/CSA	1.1	$4.95	$4.75(40)
18560-BC	S	26VDC	.21A	3.5/1.3mm Coaxial-Ctr. +	6'	BLK	3" X 2" X 1-5/8"	Black&Decker/ETPCA-180021U3	cULu	.23	$2.95	
		Actual output is 28.6NL/28V@ 200mA. Wall charger for several 18V B&D tools.										
15890-PD	X	30VDC	.4A	3' line cord/6.5mm/2.5mm Coaxial-Ctr. Neg.	5'	BLK	4-1/2"'X 2-5/8" X 2-3/16"	H/P /C2183A/9100-5195b	-----	1.4	$19.95	-----

PLUG-IN TRANSFORMERS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AC OUTPUT TRANSFORMERS
ALL PLUG TRANSFOMERS 120VAC/60HZ INPUT

STOCK #	FIG.	VOLTS	AMPS	TERMINATION (ID X OD)	LEN.	CLR.	DIM. L: X W: X D:	MANU./PART NUMBER	LISTED	WT.	1EA	12+EA
18556-PA	A	12VAC	3A	2Pos Screw		Blk.	3-1/4"x 2-5/8" x 2-1/4"	AULT/306-4012-000E	UL	1.4	$6.95	Call
12635-PA	B	12VAC	3A	2 Pos.Screw-LED Ind.	-	White	4" x 2-5/8" x 2-1/4"	MG Electronics	UL	1.6	$7.95	$7.45
14175-PA	B	16.5VAC	2.4A	2 Pos. Screw-LED Power Indicator	-	White	4" x 2-5/8" x 2-1/4"	MG Electronics	UL	1.6	$7.95	$7.45
18249-PA	B	16.5VAC	2.4A	2 Pos. Screw	-	White	4" x 2-5/8" x 2-1/4"	AMSECO XT-1640	UL	1.6	$6.95	$6.45
17560-PA	D	18VAC	1.1A	2 Pos. Screw	-	Beige	2-3/8" x 2-1/4" x 2"	AULT	UL	.8	$3.95	Call
12637-PA	B	24VAC	1.6A	2 Pos. Screw-LED Ind.	-	White	4" x 2-5/8" x 2-1/4"	MG Electronics	UL	1.6	$7.95	$7.45
17561-PA	F	24VAC	1.66A	2Socket Molex Micro-Fit.	6	Black	3-1/4" x 2-3/4" x 2-1/8"	AULT/T5724166 7D020G	UL	1.8	$6.95	Call

A

CHASSIS MOUNT TRANSFORMERS

SELECTING TRANSFORMERS

Volts & Current listed are nominal RMS. Open circuit and loaded values are different.
Type of rectifier/filter circuit will effect secondary & output current and they can be very different.
Full wave center tap choke input filter: Transformer secondary amps are .7 X required output amps.
Full wave center tap cap input filter: Transformer secondary amps are 1.2 X required output amps.
For Full wave bridge choke input filter: Transformer secondary amps are = to required output amps
For Full wave bridge cap input filter: Transformer secondary amps are 1.8 X required output amps.

B

STOCK #	STYLE	INPUT	OUTPUT VOLTS	AMPS	LEADS	DIMN. (L W H)	WT.	1EA	12EA
The following Transformers have a Center tapped secondary allowing use of Half wave, Full wave center tap or Full wave bridge rectifier circuits.									
7838-TR	A	110/220VAC	12VAC (6V-0V-6V)	1A	6"	2-3/4" x 1-1/2" x 1-5/8"	.6	$2.75	$2.50
7839-TR	A	110/220VAC	12VAC (6V-0V-6V)	2A	6"	3-1/4" x 2" x 2"	1.3	$4.95	$4.25
7840-TR	A	110/220VAC	12VAC (6V-0V-6V)	4A	6"	4" x 2" x 2-1/4"	1.7	$7.75	$7.25
7841-TR	A	110/220VAC	18VAC (9V-0V-9V)	1A	6"	3" x 2" x 1-3/4"	.8	$3.45	$3.25
7842-TR	A	110/220VAC	18VAC (9V-0V-9V)	1.5A	6"	3-1/4" x 2" x 1-7/8"	1.1	$4.95	$4.45
7843-TR	A	110/220VAC	18VAC (9V-0V-9V)	2A	6"	3-1/4" x 2" x 1-7/8"	1.1	$5.63	$5.25
7844-TR	A	110/220VAC	24VAC (12V-0V-12V)	2A	6"	3-1/2" x 2-1/4" x 2"	1.4	$5.75	$5.49
7845-TR	A	110/220VAC	24VAC (12V-0V-12V)	4A	6"	3-7/8" x 2-1/2" x 2-1/4"	2.3	$9.49	$8.95
7846-TR	B	110/220VAC	24VAC (12V-0V-12V)	10A	6"	3-3/4" x 3-5/8" x 3-3/8"	5.5	$18.95	$17.49

120/240VAC TRANSFORMER

MFG: TODD
P/N: AT-106
Input: 240/120VAC60Hz
Output: 240/120VAC@ 150VA (1.2A)
Frame mount Step Up/Down autotransformer. Unit can be wired for 120/240V input or output. .25" Quick connect for 240 terminals & .187" for 120V terminals.
L: 4" **W:** 2-1/2" **H:** 2-1/2" **WT:** 2.7

STOCK #	DESC.	1EA
18133-TR	240/120V Auto Transformer	$12.95

FLAT CABLE NOISE FILTERS

Fair-Rite P/N #0443166651
Snap-On, ferrite filters. Clamps on ribbon cable up to 1.3" wide & up to .05"thick (24-26 conductor). Type 43 material blocks noise frequencies from 1MHz to100MHz. Permeability=1000, impedance: 77 @ 25MHz 225 @ 100MHz.
L: 1-1/4" **W:** 1-7/8" **H:** 5/8" **WT:** .18

STOCK #	DESC.	1EA	10+EA
12799-FL	26 Cond. Noise Filter	$2.75	$2.49

FLAT CABLE NOISE FILTERS

Fair-Rite Snap-On, ferrite filters. Clamps on ribbon cable up to 1" wide & up to .05"thick (20 conductor). Type 43 material blocks noise frequencies from 1MHz to100MHz. Permeability=1000, impedance: 77 @ 25MHz 225 @ 100MHz. Peel-n-stick mounting tape on back
L: .9" **W:** 1.5" **H:** .375" **WT:** .05

STOCK #	DESC.	1EA	10+EA
15456-FL	20 Cond. Noise Filter	$2.25	$1.89

SNAP-ON NOISE FILTERS

TIA-TECH P/N W5 SRH ferrite snap-on filters. Black Plastic case with type W5 split core material. Clamps around 3/8"cable and blocks noise. Frequencies from 25MHz to above 500MHz. impedance: 100+ @ 25MHz /200+ @ 100MHz
L: 1.3"

STOCK #	CABLE	DESC.	WT	1EA
18466-FL	.25"	Clam Noise Filter	.07	$0.99
18461-FL	.37"	Clam Noise Filter	.09	$2.49
18462-FL	.5"	Clam Noise Filter	.18	$1.25

SNAP-ON NOISE FILTERS

Fair-Rite P/N 0443167281ferrite snap-on filters. Plastic case with type 44 split core material. Clamps around cable up to .4in Dia. and blocks noise. Frequencies from 30MHz to500MHz. Permeability=500, impedance: 125@25MHz/210@100MHz
L: 1.55" **W:** .94" **H:** .94" **WT:** .08

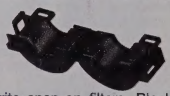
STOCK #	DESC.	1EA	25+EA
17842-FL	.4" Clam Noise Filter	$2.49	$1.95

TOROID CORE

1" O/D Uncoated toroid. Fair-Rite P/N 5975001301, High PermeabilityType 75 MnZn material. Flux Density: 4300 Gauss, Core Constant: 20, Inductance Factor: 3140nH, Effective Path Length: 6.2cm. For Broadband & Pulse transformers.
O/D: 1" **I/D:** .610" **T:** .25" **WT:** .02

STOCK #	DESC.	1EA	10+EA
17609-TC	1" Toroid Core	$1.49	$1.25

SNAP-ON NOISE FILTERS



TIA-TECH P/N W5 SRH ferrite snap-on filters. Black Plastic case with type W5 split core material. Clamps around 3/8"cable and blocks noise. Frequencies from 25MHz to above 500MHz. impedance: 80+ @ 25MHz / 180+ @ 100MHz
L: .75" **W:** 1.12" **H:** .88" **WT:** .04

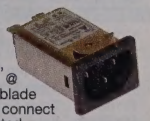
STOCK #	CABLE	DESC.	1EA
18463-FL	.37"	Clam Noise Filter	$1.95

RFI INLET FILTER

DELTA 10ME3, PC board/Panel mount, power inlet/RFI Filter. Rated: 10A @ 115/250VAC. Standard male 3 blade IEC cord connector. Right angle solder output terminals, UL/CSA /VDElisted.
W: 2" **H:** 1-1/32" Body **D:** 1-5/8" **WT:** .1

STOCK #	DESC.	1EA
18456-FL	6A Delta RFI Module	$3.95

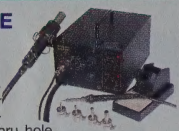
RFI INLET FILTER



DELTA 06DENG3B-R, Snap-in, power inlet/RFI Filter. Rated: 6A @ 125/250VAC. Standard male 3 blade IEC cord connector. .250 quick connect output terminals, UL/CSA /VDElisted.
W: 1-1/4" **H:** 1" **D:** 2-3/8" **WT:** .1

STOCK #	DESC.	1EA
18056-FL	6A Delta RFI Module	$3.95

SMD & THRU-HOLE REWORK STATION



ESD safe, repair/rework station with a hot air head for SMT devices, standard solder iron for touch-up and thru hole use. Features: a fast heating ceramic heater, stable temperature, comfort grip handles easy off connector for soldering iron, interchangeable tips and nozzles for iron & hot air heads. Adjustable air flow, adj. temperature control for air & iron, Temperature range: 100 deg.-500deg. "C".
Station Includes: Base unit, soldering iron & stand, Hot air head with 4 nozzles: .09"/.17"/.235"/.34" dia.

STOCK #	DESC.	1EA
15143-TL	SMD Rework Station	$169.00
15144-TL	Replacement Iron Handle	$12.95

SMD STATION NOZZLES

VISIT **mpja.com for listing and pictures of QFP/SOP/PLCC nozzles** Tips for **15143-TL**. Different styles for various uses.
WT: .2

STOCK #	DESC.	1EA
15284-TL	.39" sq. QFP Nozzle	$27.00
15285-TL	.55" sq. QFP Nozzle	$27.00
15286-TL	.68" sq. QFP Nozzle	$27.00
15287-TL	.55" X .78" QFP Nozzle	$35.00
15290-TL	.17" X .39" SOP Nozzle	$26.00
15291-TL	.22" X .51" SOP Nozzle	$26.00
15292-TL	.30" X .59" SOP Nozzle	$26.00
15293-TL	.30" X .70" SOP Nozzle	$27.00
15295-TL	.78" X .78" PLCC Nozzle	$39.00

DIGITAL CONTROLLED SOLDER STATION

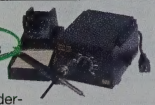
360° WEB

40W Temperature controlled soldering station with digital temperature control & display, grounded tip, ceramic heater and comfort grip handle. Easy off connector for easy replacement oh handle/heater. Adjustable Temperature range: 200 deg. "C" to 480 deg. "C" (392-896 "F"). Fused line. 117 VAC. **WT:** 4.7

STOCK #	DESC.	1EA
15141-TL	302A Digital Solder Station	$51.95
15144-TL	Replacement Handle	$12.95

TEMPERATURE CONTROLLED SOLDER STATION

360° WEB



40W Temperature controlled soldering station with, grounded tip, ceramic heater and comfort grip handle. Easy off connector for easy replacement oh handle/heater. Adjustable Temperature range: 200 deg. "C" to 480 deg. "C" (392-896 "F"). Fused line. 117 VAC. **WT:** 4.5

STOCK #	DESC.	1EA
15140-TL	301 Solder Station	$39.95
15144-TL	Replacement Handle	$12.95

REPLACEMENT TIPS

Tips for **15140, 15141 & 15143** soldering stations. Different styles for various uses. **WT:** .2

STOCK #	DESC.	1EA	10+EA
15146-TL	.8mm Chisel Tip	$4.95	$4.49
15148-TL	1.6mm Chisel Tip	$4.95	$4.49
15150-TL	3.2mm Chisel Tip	$4.95	$4.49
15151-TL	1mm Single Flat Tip	$4.95	$4.49
15152-TL	2mm Single Flat Tip	$4.95	$4.49
15154-TL	4mm Single Flat Tip	$4.95	$4.49
15155-TL	Long Conical Tip	$4.95	$4.49
15156-TL	Std. Conical Tip	$4.95	$4.49
15157-TL	Conical Fine Tip	$4.95	$4.49

SOLDERING STATION

360° WEB

General purpose solder station for the hobbyist. Adjustable from 5 to 50 Watt (800° F max) heat output for repairing PC boards to soldering transformer terminals. Station provides on-off switch, knob to control wattage, built-in stand, tip cleaning sponge & 1/32" point tip. 115 VAC line.
Base **L:** 5-5/8" X **W:** 4-9/16" X **T:** 3-5/8" **WT:** 1.8

STOCK #	DESC.	1EA	10+EA
15860-TL	Solder Station	$14.95	$13.95
15861-TL	Replacement handle	$4.95	$4.49

REPLACEMENT TIPS

Tips for **15860-TL ONLY** soldering station. Different styles for various uses. **WT:** .05

STOCK #	DESC.	1EA	10+EA
15862-TL	1/32" Point Tip	$1.95	$1.75
15863-TL	1/16" Point Tip	$1.95	$1.75
15864-TL	1/8" Flat Tip	$1.95	$1.75
15865-TL	1/8" Chisel Tip	$1.95	$1.75

HOT AIR REWORK STATION

360° VIEW @MPJA.COM

Hot air repair/rework station for SMT devices. Features: a fast heating ceramic heater, internal air supply, stable temperature, comfort grip handle, interchangeable hot air nozzles for PLCC/SOP/ etc. devices. Adjustable temperature & air flow. Temperature range: 150 deg.-500deg. "C".
Station Includes 4 nozzles:
16123-TL QFP 10 X 10 (mm),
16124-TL QFP 14 X 14 (mm),
16122-TL Single 2.5mm Dia.,
16128-TL Single 4mm Dia.
Repair Parts & Other Nozzles Available
WT: 9

STOCK #	DESC.	1EA
16121-TL	SMD Rework Station	$99.95

REPLACEMENT REWORK STATION PARTS

VISIT
mpja.com
for pictures of replacement parts for 16121-TL.

STOCK #	DESC.	1EA
17215-TL	Replacement Heater	$4.95
17216-TL	Replacement Wide Pickup Wire	$1.49
17217-TL	Replacement Narrow Pickup	$1.49
17218-TL	Replacement Pickup Handle	$1.49

HOT AIR STATION NOZZLES

VISIT **mpja.com for listing and pictures of QFP/SOP nozzles** Tips for **16121-TL**. Different styles for various uses.
WT: .2

STOCK #	DESC.	1EA
16122-TL	2.5mm Dia. Nozzle	$4.95
16123-TL	10mm sq. QFP Nozzle	$6.95
16124-TL	15mm sq. QFP Nozzle	$6.95
16125-TL	19 mm sq. QFP Nozzle	$6.95
16126-TL	15mm X 21mm QFP Nozzle	$6.95
16127-TL	29mm sq. QFP Nozzle	$7.95
16128-TL	4.4mm Dia. Nozzle	$4.95
16129-TL	4.8 X 10mm SOP Nozzle	$6.95
16130-TL	5.7 X 15mm SOP Nozzle	$6.95
16131-TL	7.2 X 16mm SOP Nozzle	$6.95
16132-TL	7.2 X 19mm SOP Nozzle	$6.95

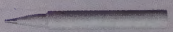
TEMPERATURE CONTROLLED SOLDER STATION

360° VIEW @MPJA.COM

ZD Electronic Tools ZD-929C Temperature controlled soldering station with LED display. Heat sensor located near the tip for fast response and +-10° "F" control. Rated at 48Watts, 24Vac handle. Temperature range: 320° "F" to 800° "F". Isolated tip, fused line. 117 VAC. Extra tips are available for general replacement or special uses.
Base **L:** 6-3/4" X **W:** 4-3/4" X **T:** 3-9/16" **WT:** 4.8

STOCK #	DESC.	1EA	5+EA
15845-TL	LED Solder Station	$46.95	$39.95
15846-TL	Replacement Handle	$6.95	$6.49

REPLACEMENT TIPS



Tips for **15845-TL ONLY** temperature controlled soldering station. Different styles for various uses. **WT:** .05

STOCK #	DESC.	1EA	10+EA
15849-TL	.02" Round Tip/std. Shank	$1.95	$1.75
15850-TL	.02" Point Tip/thin Shank	$1.95	$1.75
15851-TL	.12" Conical Tip/std. Shank	$1.95	$1.75
15852-TL	.08" Chisel Tip/std. Shank	$1.95	$1.75
15853-TL	.02" Round Tip/med. Shank	$1.95	$1.75

SMD HOT TWEEZER ADAPTER

48W, Hot tweezer adapter replaces the soldering iron handle/heater assembly on our 15845-TL station. Removes surface mounted components up to 2.5mm with tip supplied.Other size tips are available.
WT: .5

STOCK #	DESC.	1EA	5+EA
15847-TL	Hot Tweezers Adapter	$12.95	$11.49

SMD TWEEZER TIP SET

Set of 7 different size tips for SMD tweezer handle 15847-TL. One pair of 2.5mm, 3.5mm, 5mm, 10mm, 15mm, 20mm and 30mm wide tips.
WT: .1

STOCK #	DESC.	1EA	5+EA
15848-TL	Hot Tweezer Tip Set	$5.95	$5.49

LEAD FREE SMD REWORK STATION

ESD safe, All-N-1 solder station designed for use with "lead Free" solders & Boards. Includes all the needed functions: Hot Air Gun, Soldering Iron, Desoldering Gun, and Smoke Absorber. Features Auto Turn Off sleep mode, Touch controls, Air Flow Gage, Digital displays for Solder Iron, Hot Air Gun, Desoldering Gun temperatures.
Includes these nozzles:
2.5mm (.1") Dia., 4.4mm (.17") Dia., 9mm (.35") Dia., 9X9mm BGA, 12X12mm BGA, 18X18mm BGA.
Power Input: 110VAC 60Hz
Soldering Iron: Adj. 250-480 "C"
24V/70W heater
Hot Air Gun: Adj. 100-480 "C"
23 L/min max Air flow
500W heater core
Diaphram air pump
DeSoldering Gun:
Adj. 380-480"C"
600mm/Hg Suction
15 L/min max Air flow
Additional Nozzles Available: Visit MPJA.COM
L: 4" **Dia:** 1-1/2" O/A **WT:** .29

STOCK #	DESC.	1+EA
6830-TL	SMD Rework Station	$249.95

LEAD FREE SOLDER STATION

MFG: MUELLER
P/N: ST-0
Input: 115 VAC 50/60Hz
Max. Power: 60W
From the Company that gave us the Alligator Clip; another innovation in soldering. Unit features a variable temperature soldering iron & stand with Fume extractor fan/filter. Ideal for solder touch-up on boards, tinning wires & leads etc.
Specifications/Features:
Temp. range: Adj. ~350-895°F"/175-480°C"
Fan: 4.5W/Active Carbon Filter
Fan ON/OFF Control
Cords: 2m for Power & 1m for Iron

D: 14-1/2" **W:** 6-1/2" **H:** 13" **Ship WT:** 10

STOCK #	DESC.	1EA
18168-TL	Mueller Lead Free Station	$199.95

MINI SOLDER STATION

8W mini temperature controlled soldering station with un-grounded tip and comfort grip handle. Easy off connector for easy replacement of handle/heater. Adjustable Temperature range: 100 deg. "C" to 450 deg. "C" (212-842 "F"). Fused line. 117 VAC.

L: 4" **W:** 3" O/A **H:** 1-7/84" **WT:** 1.5

STOCK #	DESC.	1EA	10+EA
16924-TL	8W Mini Station	$12.95	$11.95

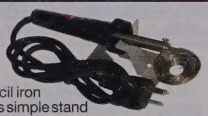
SOLDERING IRON

Light weight, 30 watt pencil iron with pointed tip. 4ft, 2 wire line cord. Overall length of iron is 8-1/4". Ideal for general shop use. Available UL listed

L: 8-1/2" **WT:** .6

STOCK #	DESC.	1EA	5+EA
3027-TL	Non UL Solder Iron	$2.95	$1.95
3028-TL	UL Solder Iron	$4.95	$4.49

30W SOLDERING IRON

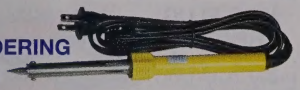


Light weight, 30 watt pencil iron with pointed Tip. Inchudes simple stand & Spare Tip. 4ft, 3 wire line cord. Tip is grounded. Overall length of iron is 9". Ideal for general shop use. CE listed

L: 8-1/4" **WT:** .45

STOCK #	DESC.	1EA
17518-TL	30W Solder Iron/Stand	$5.95

60W SOLDERING IRON

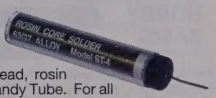


Light weight, 60 watt pencil iron with pointed Tip. Includes simple stand. 4ft, 2 wire line cord. Ideal for general shop use. Includes simple stand.

L: 9-1/2" **WT:** .4

STOCK #	DESC.	1EA
18339-TL	60W Solder Iron/Stand	$6.95

HANDY TUBE SOLDER



.04in Dia. 63/37 Tin/Lead, rosin core solder in plasitc Handy Tube. For all electronic uses.

WT: .044/.057

STOCK #	DESC.	1EA
17148-TL	.38oz (~6ft.) 63/37 Solder	$0.99
17462-TL	.6oz (8ft+)Tube 63/37 Solder	$1.25

FIXTURE FREE SOLDER STATION

MORE PGS 14,15

MFG: MUELLER
P/N: ST-1
Input: 115 VAC 50/60Hz
Max. Power: 75W
From the Company that gave us the Alligator Clip; the latest in solder productivity. Self contained unit features a variable temperature soldering head with a variable speed solder feed & Fume extractor fan/filter. Ideal for solder touch-up on boards, tinning wires & leads etc. No fixturing required; operator holds board under head while controlling the solder feed by the foot switch.
Specifications/Features:
Temp. range: Adj. ~350-895"F"/175-480"C"
Stability: +-5 "C"/+-9 "F"
Solder Dia: .024Min/.063 Max (Leaded or Lead free)
Solder Feed: Adj, 0-4"/Sec.
Solder Span: Adj. 0-1Sec.
Solder Feed Time: Continuous: As long as foot switch depressed
Pulse: each depression of foot switch as set by "Span" control.
Solder Head Adj.: +15 to -45 degrees from Vertical
Left 54 to Right 54 degrees from center
Height: 7" min to 10" Max (Head Vertical)
Cords: 2m for Power & Footswitch
Includes: Tips, Solder, Wrench

D: 14-1/2" **W:** 6-1/2" **H:** 13" **Ship WT:** 11

STOCK #	DESC.	1EA
18167-TL	Mueller Solder Station	$249.00

BUTANE PENCIL TORCH

Hand held pencil torch generates a flame of over 1000° "C" using a butane lighter fuel. Aluminum body with brass valve and burner. Shipped empty due to shipping regulations. Used standard fuel and filler adapter available at most grocery stores

L: 8" **Dia:** 1/2" **WT:** .11

STOCK #	DESC.	1EA	5+EA
7289-TL	Butane Pencil Torch	$4.95	$4.25

MINI SOLDER SUCKER

Plastic tip and aluminum body. Spring loaded with push button release, with replaceable tip.

L: 7-7/8" **D:** 7/8" **WT:** .2

STOCK #	DESC.	1EA	5+EA
0041-TL	Mini Solder Sucker	$3.95	$2.95
9178-TL	Mini Replacement Tip	$0.69	$0.59

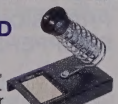
ADJUSTABLE ARM SMOKE ABSORBER

Smoke absorber with activated carbon filter removes fumes and smoke from work area. 2 section cantilevered metal arms with 3 joints allows for multi-positions. ESD safe plastic with metal stand. 115VAC fan with 5ft. cord. Includes 2 spare filters (filters should be changed after 30 days of use), 2 fan exhaust deflectors. +- 85deg. Arm swing.

H: adj 0-16"from Benchtop **WT.:** 6

STOCK #	DESC.	1EA
17529-TL	Smoke Absorber	$39.95
15167-TL	Replacement Carbon Filters	$6.50

SOLDERING IRON STAND



Metal stand for pencil irons. Spring type, 5" X 3-1/4"base with wiping sponge. High temperature thermo-plastic collar to keep iron handle cool.

L: 5" **W:** 3-1/4" **WT:** .2

STOCK #	DESC.	1EA	5+EA
4455-TL	Solder Iron Stand	$4.50	$3.95

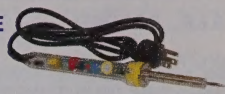
DESOLDERING IRON

Light weight, 40 watt desoldering iron. Built in solder sucker, 4ft, 3 wire line cord. Overall length of iron is 10-1/2". Ideal for general shop use. 115VAC/40W

L: 10-1/2" **WT:** .6

STOCK #	DESC.	1EA	10+EA
16922-TL	Desoldering Iron	$6.95	$5.95
16923-TL	Replacement Tip	$1.95	$1.75

ADJUSTABLE SOLDERING IRON



Clear handle, Light weight, adjustable 50 watt pencil iron with a pointed tip. Temp. Range: 200-450 "C". Red LED indicates heater operation. 4ft, 3 wire line cord. Tip is grounded. Overall length of iron is 9". Ideal for general shop use. CE listed.

L: 9-5/8" **WT:** .5

STOCK #	DESC.	1EA
17517-TL	Adj. 50W Solder Iron	$12.95
17530-TL	Replacement TIP	$1.95

LIGHTED SOLDERING IRON

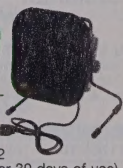
Light weight, 30 watt pencil iron with a pointed tip and a White LED that illuminates the tip. 4ft, 3 wire line cord. Tip is grounded. Overall length of iron is 9". Ideal for general shop use. CE listed.

L: 9 **WT:** .4

STOCK #	DESC.	1EA
17516-TL	Lighted Solder Iron	$5.95
17531-TL	Replacement TIP	$1.75

BENCHTOP SMOKE ABSORBER

360° VIEW @MPJA.COM



Benchtop smoke absorber with activated carbon filter removes fumes and smoke from work area. ESD safe plastic with metal stand. 115VAC fan with 5ft. cord. Includes 2 filters. (filters should be changed after 30 days of use).

H: 10" **W:** 7-3/4" **D:** 4-1/4" **WT.:** 3.1

STOCK #	DESC.	1EA
15166-TL	Smoke Absorber	$27.99
15167-TL	Replacement Carbon Filters	$6.50

ANTISTATIC SOLDER SUCKER

Antistatic solder removal tool with plastic body and teflon tip. Spring loaded tool with push button release, uses suction to remove solder from circuit board components.

L: 13-1/2" **D:** 1-1/4" **WT:** .25

STOCK #	DESC.	1EA	50+EA
17220-TL	Solder Sucker	$5.95	$4.95
17221-TL	Replacement Tip	$1.95	$1.49

ANTISTATIC TIP SOLDER SUCKER

Solder removal tool with Plastic body and Antistatic tip. Spring loaded tool with push button release.

L: 11-1/4" **D:** 15/16" **WT:** .2

STOCK #	DESC.	1EA	5+EA
15859-TL	Solder Sucker	$6.95	$6.49
15858-TL	Replacement Tip	$2.35	$1.95

LOW LEAD SOLDER

93Sn/7Pb alloy
Solidus: 183 deg. "C"
Liquidus: 220 deg. "C"
1mm/.039" Dia. ~18AWG
Mildly Activated core
For general applications requiring slightly higher temperature range than standard 60/40 alloy
190gm (Approx 110ft.)

WT: .5

STOCK #	DESC.	1EA
17718-TL	Low Lead Wire Solder	$9.99

5 LB. SOLDER

MFG: ALPHA
P/N: SN60 QQS-571
Melting Point: 182-191"C"/361-376"F"
Dia: .056"/1.4mm
5 lb. spool of 60% Tin/40% Lead, solder with Type RA Energized + rosin flux core. Standard spool for bench top or tool box. For electronic uses.

WT: 5.1

STOCK #	DESC.	1EA
17839-TL	5Lb ALPHA Solder	$45.95

TOOLED PIN CRIMPER

Crimp tool for machined type insert Contacts.
Features: Spring Loaded, 4 Indent Crimp Pattern. For 20-26AWG wire, D-Sub, MS Barrel Type Contacts.

WT: .6

STOCK #	DESC.	1EA	5EA
15534-TL	Machined Pin Crimper	$34.95	$32.95

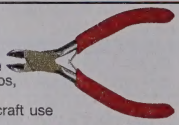
GENERAL PURPOSE CRIMPER

All in One Crimp Tool
Features: Cushioned Grips.
Cuts 4-40, 6,8,10-32 & 10-24 bolts, Wire Cutter, Crimps Ins. & Non Ins. Terminals

WT: .6

STOCK #	DESC.	1EA	10EA
11764-TL	All-N-One Tool	$5.95	$5.45

MINI CUTTERS

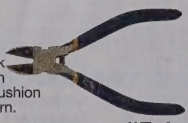


Mini Diagonial cutters with cushioned dipped vinyl grips, Box Hinge and leaf springs
General purpose electrical/craft use

L: 4-1/2" **WT:** .14

STOCK #	DESC.	1EA
17768-TL	Box Joint Dikes	$0.99

6" CUTTERS

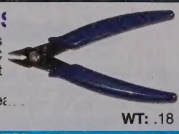


Features: Forged, back milled, flush cutters with Standard cutting angle cushion grip handles & spring return.

L: 5-1/4" **WT:** .3

STOCK #	DESC.	1EA
17877-TL	5in. Flush Cutter	$5.95

FLUSH CUTTERS



Spring loaded Flush Cutters
Feature: Hardened to HRC 58. cushion grip handles, cut copper wire up to 1mm
Use: Trimming PC Board Le...

L: 5" **WT:** .18

STOCK #	DESC.	1EA
18334-TL	5in. Flush Cutter	$2.95

1 LB. 60/40 SOLDER

1 lb. spool of 20 AWG(1mm/.038mm) 60/40 Tin/Lead, rosin core solder. Standard spool for bench top or tool box. For all electronic uses.

WT: 1.1

STOCK #	DESC.	1EA	5+EA
4457-TL	1Lb 60/40 Solder	$16.95	$15.95

SOLDER BRAID

When placed on a solder connection and heated; this rosin coated copper braid will draw up the melted solder. 1.5m (4.9ft) on a plastic spool. Ideal for PC board repair, field service, etc.

L: 1.5m **WT:** .2

STOCK #	DESC.	1EA	5+EA
2648-TL	2mm Wide Solder Wick	$0.65	$0.59
16433-TL	4mm WideSolder Wick	$0.75	$0.69

CABLE CUTTER

11" Heavy Cable Cutter Features: Ratchet Handle with Release, Cushioned Grips. Soft Copper & Alum. Wire to 1.75" Dia.

L: 11" **WT:** 2

STOCK #	DESC.	1EA	5EA
11710-TL	Heavy Duty Cutters	$98.79	$89.95
11711-TL	Rep. Moving Blade	$32.49	$29.95
11712-TL	Rep. Fixed Blade	$38.99	$36.95

PUNCH DOWN TOOL

HT110B Punchdown Tool Handle with Type 110 blade
Features: Hi-Lo Spring Loaded Impact, Blade Storage.
Use: Tool for solid conductor wire on Type 110 blocks. Reversible blade for looping or cutoff.

WT: .4

STOCK #	DESC.	1EA
18262-TL	110Punch Down Tool	$9.95

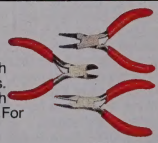
ALL PURPOSE PLIERS

8" All Purpose Crimp Pliers
Features: Cushioned Grips.
Serrated Nose for Grip, Crimps Terminals for 14-6AWG wire, Strips 18-10AWG

L: 8" **WT:** .8

STOCK #	DESC.	1EA	10EA
11765-TL	All Purpose Pliers	$17.95	$16.75

3PCS. MICRO PLIERS



Dropped forged, micro pliers with leaf springs & cushioned grips. Includes: Side cutter, Smooth jaw long Nose & Round Nose. For Electronic work.

L: 3" **WT:** .22

STOCK #	DESC.	1EA
17540-TL	3Pcs. Micro Pliers	$2.95

PRECISION STRIPPERS

Precision ground Strippers feature: Spring Loaded, Cushioned Grips, Ground Cutting Jaw for AWG 20,18,16,14,12,10.

L: 6" **WT:** .3

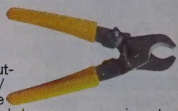
STOCK #	DESC.	1EA	5EA
11715-TL	Cutter/Stripper	$6.29	$5.95

LEAD FREE SOLDER

NEW YORK SOLDER "Pure Bond"
Sn/Cu alloy
Cu: 2.8-3.2%
Sn: remainder
Melt Point: 227-250deg. "C"
.125" Dia. (1/8")
No Flux core
For sheet metal joining, plumbing, etc.

STOCK #	DESC.	WT.	1EA
16729-TL	4oz. Wire Solder	.27	$7.95
16730-TL	8oz. Wire Solder	.54	$14.95

CABLE CUTTER



8" Heavy duty cutter for cutting soft copper wire up to 2/0 or communication cable up to 100 pairs. Not for hard drawn copper wire, steel core or steel supported coax cable.

WT: .8

STOCK #	DESC.	1EA	5+EA
12571-TL	Heavy Cable Cutter	$10.50	$9.95

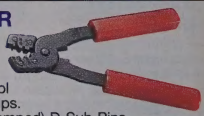
ADJUSTABLE CUTTER STRIPPERS

Adjustable Wire Cutter / Stripper
Features: Spring Loaded, Cushioned Grips, Screwdriver Adjustable. Handle color may vary. Adj for AWG 10-30 Wire

L: 5-1/2" **WT:** .2

STOCK #	DESC.	1EA	5EA
11714-TL	Cutter/Stripper	$3.69	$3.35

DB CONNECTOR PIN CRIMP TOOL



Multi Purpose Crimp Tool
Features: Cushioned Grips.
Use: Crimping Open (stamped) D-Sub Pins, Ternimal Lugs. For 14-26 AWG Wire,
NOTE: Will not crimp High Density DB Pins.

WT: .6

STOCK #	DESC.	1EA	10EA
11763-TL	Multi Crimp Tool	$9.95	$7.95

DB CRIMP PIN EXTRACTOR

Tool used to extract crimp pins from insertion type DB connectors. Double ended For Pin & Socket type connectors (16251-PL - 16262-PL)

WT: .03

STOCK #	DESC.	1EA
17124-TL	DB-Crimp Pin Extractor	$4.75

MOD PLUG CRIMPER

Heavy Duty MOD Plug Crimp Tool
Features: Cushioned Grips, Ratchet Action, 2 Cavity, Cutter/stripper for Flat & Round Cable Crimps RJ-11/12 & 45 Plugs.

WT: .8

STOCK #	DESC.	1EA	5EA
11751-TL	RJ Plug Crimper	$25.99	$24.95

HOBBY SAWS

Hobby mini saws with cushion grip handles.
Flexible tool steel blades with fine teeth (~30/in) for cutting balsa or other soft woods & plastic. Long Blade: 2-5/8" Short Blade: 1-1/2"

L: 6-1/8"/7-1/8" **WT:** .36

STOCK #	DESC.	1EA
17889-TL	Steel Hobby Saws	$1.95

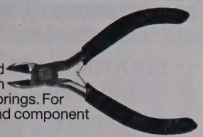
CABLE TIE TOOL

ELECTROFORCE #89605,Tie installation tool tightens & cuts nylon ties in one operation. For ties up to .19in. wide. Adjustment knob selects 8 tension settings.

L: 6-3/4" H: 5-3/4" T: 1" WT: .7

STOCK #	DESC.	1EA
18353-TL	Tie Install Tool	$4.95

4" DIAGONAL CUTTERS

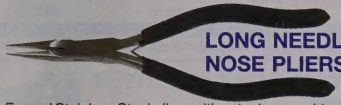


Drop forged, 4" Rounded jaw Diagonal Cutter with cushioned grips and leaf springs. For cutting soft copper wire and component leads.

L: 4-1/4" WT: .16

STOCK #	DESC.	1EA
18177-TL	4" Mini Diagonal Cutter	$1.95

LONG NEEDLE NOSE PLIERS



Forged Stainless Steel pliers with extra long cushion grip handles. Feature: box joint, flat nose, smooth jaw with spring return. No cutter.

L: 7-3/4" WT: .31

STOCK #	DESC.	1EA
17919-TL	ExtraLong Nose Pliers	$2.95

6" CUTTER STRIPPER

Features: Forged cutters with cushion grip handles and 2 holes for wire stripping. Ergonomic cutting angle. Not spring loaded.

L: 6-1/4" WT: .4

STOCK #	DESC.	1EA
16749-TL	6in. Cutter/Stripper	$3.95

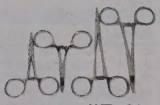
STAINLESS CUTTERS

Features: Forged stainless steel flush cutters with cushion grip handles & spring return. For copper & aluminum.

L: 4-7/8" WT: .22

STOCK #	DESC.	1EA
17882-TL	Stainless Flush Cutter	$6.95

HEMOSTATS

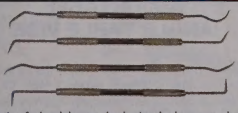


Stainless steel multi-purpose hemostats. Serrated tip, clip lock, ideal for holding small components.

WT: .04

STOCK #	DESC.	1EA	5+EA
3857-TL	3.5" Straight Hemostat	$2.00	$1.69
3858-TL	3.5" Curved Hemostat	$2.00	$1.69
3859-TL	5" Straight Hemostst	$2.00	$1.69
3860-TL	5" Curved Hemostst	$2.00	$1.69

HOBBY PICKS

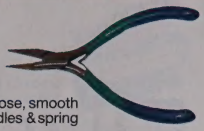


4 piece assortment of double ended steel sharp point, hobby picks. Various shapes with knurled grips.

L: 6-1/2"-7-1/4" WT: .19

STOCK #	DESC.	1EA
17917-TL	4Pc. Hobby Steel Picks	$1.95

FLAT NOSE PLIERS

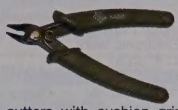


Forged, side milled, flat nose, smooth jaw with cushion grip handles & spring return.

L: 5" WT: .16

STOCK #	DESC.	1EA
17878-TL	5in. Flat Nose Pliers	$4.95

PC BOARD FLUSH CUTTER

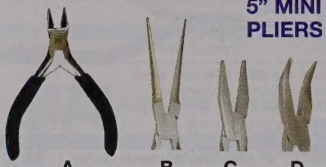


Features: Spring Loaded, cutters with cushion grip handles
Use: Trimming PC Board Leads.

L: 5" WT: .17

STOCK #	DESC.	1EA
16761-TL	5in. Flush Cutter	$1.75

5" MINI PLIERS



Dropped forged, pliers with leaf springs & cushioned dipped vinyl grips. For cutting or bending soft copper wire and component leads. For fine Jewelry or Electronic work.

L: 4" to 5-7/8" WT: .15

STOCK #	FIG.	DESC.	1EA	10+EA
16498-TL	A	Diagonal Cutter	$2.35	$2.25
17013-TL	B	Long Nose Pliers	$1.95	$1.75
17014-TL	C	Needle Nose Pliers	$1.95	$1.75
17015-TL	D	Bent Nose Pliers	$1.95	$1.75

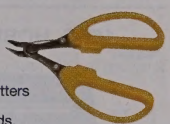
STAINLESS DIAGONAL CUTTERS

Corrosion resistant Stainless Steel
Cushioned dipped vinyl grips
General purpose electrical/craft use

L: 6-1/4" WT: .4

STOCK #	DESC.	1EA
17467-TL	6" Stainless Diagonal Cutter	$2.50

4 1/2" CLOSED HANDLE FLUSH CUTTER



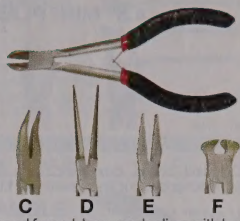
Features: Spring Loaded, cutters with hard plastic handles
Use: Trimming PC Board Leads.

L: 4-7/4" WT: .1

STOCK #	DESC.	1EA
16747-TL	Closed Handle Cutter	$2.99

BE SURE TO CHECK OUR WEB SITE FOR NEW ITEMS & SPECIALS

LONG REACH PLIERS



Nickel plated, dropped forged, long reach pliers with leaf springs & cushioned dipped vinyl grips. For fine Jewelry or Electronic work. Bulk packed.

L: 5-3/8" to 7-1/4" WT: .2

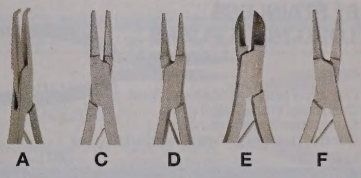
STOCK #	FIG.	DESC.	1EA	10+EA
15385-TL	A	Diagonal Cutters	$2.95	$2.49
15386-TL	B	Serrated Nose Pliers	$2.95	$2.49
15387-TL	C	Bent Nose Pliers	$2.95	$2.49
15388-TL	D	Long Nose Pliers	$2.95	$2.49
15389-TL	E	Flat Nose Pliers	$2.95	$2.49
15390-TL	F	End Cutters	$2.95	$2.49

5" MINI PLIERS

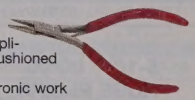
Dropped forged, pliers with leaf springs & cushioned dipped vinyl grips. For fine Jewelry or Electronic work.

L: 4" to 5-7/8" WT: .15

STOCK #	FIG.	DESC.	1EA	10+EA
15392-TL	A	Diagonal Cutter	$1.95	$1.75
15398-TL	D	Concave Nose Pliers	$1.95	$1.75
15401-TL	E	End Cutter	$1.95	$1.75



MINI PLIERS



Chrome plated, 5in. mini pliers with leaf springs & cushioned dipped vinyl grips.
For fine Jewerly, or Electronic work

L: 5" WT: .1

STOCK #	FIG.	DESC.	1EA	10+EA
4980-TL	A	Bent Nose Pliers	$2.95	$2.49
4982-TL	C	Needle Nose Pliers	$2.95	$2.49
8090-TL	D	Round Nose Pliers	$2.95	$2.49
8091-TL	E	Diagonal Cutters	$2.95	$2.49
8092-TL	F	Flat Nose Pliers	$2.95	$2.49

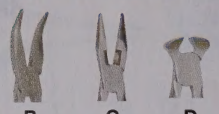
HEAVY DUTY SIDE CUTTERS

Cushioned dipped vinyl grips
General purpose electrical/craft use

L: 7-1/4" WT: .6

STOCK #	DESC.	1EA
17915-TL	6" H/D Diagonal Cutter	$2.95

4.5" MINI PLIERS

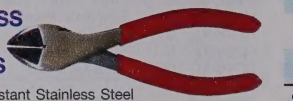


Dropped forged, Box Joint pliers with leaf springs & paddedl grips. For fine Jewelry or Electronic work.

L: 4-1/8" to 5-3/4" **WT:** .13

STOCK #	FIG.	DESC.	1EA
17658-TL	B	Smooth Jaw Bent Nose Pliers	$1.75
17659-TL	C	Serrated Jaw Long Nose Pliers	$1.75
17660-TL	D	End Nipper	$1.75

STAINLESS SIDE CUTTERS

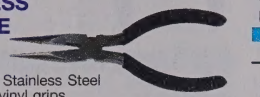


Corrosion resistant Stainless Steel
Cushioned dipped vinyl grips
General purpose electrical/craft use

L: 7-1/4" **WT:** .6

STOCK #	DESC.	1EA
17469-TL	7" S/S Diagonal Cutter	$3.50

6" STAINLESS LONG NOSE PLIERS



Corrosion resistant Stainless Steel
Cushioned dipped vinyl grips
Side Cutter & serrated nose
General purpose industrial/hobby/craft use .

L: 6-1/2" **WT:** .4

STOCK #	DESC.	1EA
17468-TL	6" Stainless Long Nose	$2.50

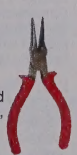
8" STAINLESS LONG NOSE PLIERS

Corrosion resistant Stainless Steel
Cushioned dipped vinyl grips
Side Cutter & serrated nose
General purpose industrial/hobby/craft use

L: 8" **WT:** .6

STOCK #	DESC.	1EA
17470-TL	8" Stainless Long Nose	$3.50

5-1/2" LONG NOSE PLIERS

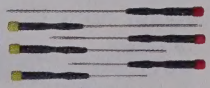


Mini long nose pliers with ergonomic formed cushioned dipped vinyl grips, smooth nose, NO Cutter.
General purpose industrial/hobby/craft use

L: 5-1/2" **WT:** .17

STOCK #	DESC.	1EA
17908-TL	Mini Long Nose Pliers	$1.95

LONG REACH SCREWDRIVER SETS



Quality minature screwdriver set contain 3 phillips & 3 flat blade. Ideal for those hard to reach places in VCR, Monitors etc. Hardened carbon steel blades

WT: .3

STOCK #	DESC.	1EA	5+EA
8083-TL	Long Screwdrivers	$4.95	$3.49

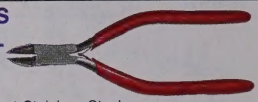
5" MINI PLIERS

Dropped forged, pliers with leaf springs & cushioned dipped vinyl grips. For fine Jewelry or Electronic work.

L: 4" to 6" **WT:** .15

STOCK #	FIG.	DESC.	1EA	10+EA
17111-TL	A	Diagonal Cutters	$1.95	$1.75
17112-TL	B	Serrated Nose Pliers	$1.95	$1.75
17113-TL	C	Bent Nose Pliers	$1.95	$1.75
17114-TL	D	Long Nose Pliers	$1.95	$1.75
17115-TL	E	Combination Pliers	$1.95	$1.75
17116-TL	F	End Cutter	$1.95	$1.75

STAINLESS DIAGONAL CUTTERS



Corrosion resistant Stainless Steel
Cushioned dipped vinyl grips
General purpose electrical/craft use

L: 6-1/4" **WT:** .25

STOCK #	DESC.	1EA
17494-TL	6" Stainless Diagonal Cutter	$3.50

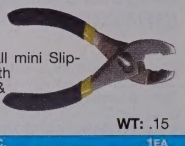
STAINLESS BENT NOSE

Corrosion resistant stainless steel.
Last 1/2" of nose bent 90deg.
Cushioned dipped vinyl grips, leaf springs,
General purpose electrical/craft use

L: 6-1/2" **WT:** .3

STOCK #	DESC.	1EA
17495-TL	Stainless Bentnose Pliers	$3.50

MINI PLIERS

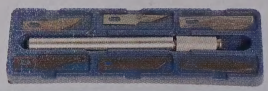


Drop forged, 4-1/4" overall mini Slip-Joint (AKA "Gas") pliers with 7/8" long serrated nose & cushion grip handles.

L: 4-1/4" **WT:** .15

STOCK #	DESC.	1EA
18281-TL	Mini Slip-Joint Pliers	$1.95

16PC. HOBBY KNIFE SET

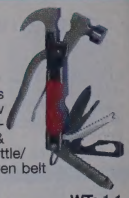


Mini precision hobby knife with 13 assorted steel blades. 3 handles with 2 jaw blade lock.
Large handle: 3/4" dia X 4-1/4" Aluminum body with plastic grip.
Medium handle: 3/8" dia. X 4-1/4" Aluminum.
Small handle: 1/4' Aluminum.
For matte cutting, wood , plastic & leather carving, scoring & trimming. Includes plastic hinged storage box with magnetic strip for holding blades.

WT: .31

STOCK #	DESC.	1EA	5EA
8246-TL	16pc. Hobby Knife	$2.95	$2.49

CHINESE ARMY HAMMER



Well not really Army but a Stainless Steel Multi tool that Includes: Claw Hammer, Combo Pliers with Wire Cutter, Large Knife Blade, Flat Blade & Phillips Screwdrivers, Saw, Awl, Bottle/ can opener, File & Fishscaler. Woven belt sheath.

L: 6-1/2" **W:** 3-3/8" **T:** 7/8" **WT:** 1.1

STOCK #	DESC.	1EA
17543-TL	Multi-Tool with Hammer	$7.95

SUCTION BASE TABLE VISE

Light duty table vise with aluminum body, steel screw, rails and jaw inserts. 2-3/4"wide jaw opens 2-3/4". removable rubber jaw covers. Rotates 360deg. Tilts 45deg. Non marring suction base.

L: 6" **W:** 6" **H:** 6" **WT:** 3

STOCK #	DESC.	1EA
18578-TL	Vacuum Base Vise	$19.95

STEEL TABLE VISE

Cast steel table vise with smooth jaw.
1-1/8" jaw width
3/4" jaw opening.
7/8" max table thickness.
Fixed head.

H: 2" above Table top **WT:** .8

STOCK #	DESC.	1EA
17890-TL	1-1/8" Steel Table Vise	$4.95

60MM MINI TABLE VISE

Cast aluminum table vise.
2-3/8" (60mm) jaw width
1-1/2" jaw opening.
1" max table thickness.
Fixed head.

WT: .94

STOCK #	DESC.	1EA
17500-TL	60mm Aluminum Table Vise	$5.95

TABLE VISE WITH DRILL CLAMP

Cast aluminum, 3 In. table vise with adapter,designed to hold a drill.
360 deg. swivel,
90 deg. tilt,
2-1/8" max table thickness,
3-1/4" max jaw opening,
Padded Jaw,
Rubber pad for top of table.
Interchangable Drill clamp holds up to 1-1/12" Dia. Drill throat.

WT:2.42

STOCK #	DESC.	1EA
17498-TL	Table Visewith Drill Clamp	$16.95

ADJUSTABLE ANGLE TABLE VISE

Light/medium duty aluminum table vise has rubber jaw grips & allow +-45° tilt from vertical & 360° swivel. 80mm jaw with swivel ball piviot. Clamps to table/bench up to 2" thick. 2" max jaw opening.

H: 10" O/A **W:** 5-7/8" **WT:** 4.2

STOCK #	DESC.	1EA	5+EA
11240-TL	Adj. Table Vise	$14.95	$12.95

DUAL RANGE HEAT GUN

Heat Gun with two heat ranges: 800 Watt or 1500 Watt, With control knob to vary the temperature. Low range 50-200° C, high range 200-500° C. 5ft. 3 wire power cord. 115VAC power. Includes concentrator nozzle attachment. Ideal for heatshrink tubing, paint stripping, plastic fabrication.

L: 10-1/4" **W:** 2-7/8" **H:** 8-1/4" **WT:** 2

STOCK #	DESC.	1EA	10+EA
15857-TL	Heat Gun	$18.95	$17.95

NEEDLE FILES

10 piece assortment of hobby needle files in a plastic pouch, you get round, triangular, square and flat files, with various smooth and cutting sides. Work length = 7cm (2.5").

L: 5-1/2" **WT:** .3

STOCK #	DESC.	1EA	5+EA
2614-TL	10Pc. Needle Files	$4.50	$3.95

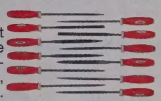
NEEDLE FILES

10 piece assortment of hobby needle files in a plastic pouch. Includes round, triangular, square, flat files and more with various smooth and cutting sides each with plastic handle. Work length = 7cm (2.5").

L: 5-1/2" **WT:** .3

STOCK #	DESC.	1EA
17535-TL	10Pc. Set Needle Files	$2.95

NEEDLE FILES



12piece assortment of Heat treated HRC60-65 hobby needle files with plastic handles. Includes 2ea. round, 1/2 round, triangular, square, & flat files. Work length = 7cm (2.5").

L: 5-3/4" **WT:** .5

STOCK #	DESC.	1EA
17594-TL	12Pc. Needle Files	$7.95

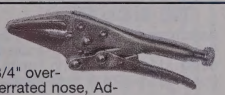
LARGE BLADE BOXCUTTER

Large blade boxcutter with plastic handle. Steel blade with 6 "snap-off" sections. Fully retractable.

L: 6-1/2" **WT:** .08

STOCK #	DESC.	1EA
16738-TL	Large Blade Boxcutter	$0.99

MINI LOCK GRIP PLIERS



Drop forged jaws, 4-3/4" overall with 1-1/4" long serrated nose, Adjustable locking grip with release.

L: 4-3/4" **WT:** .23

STOCK #	DESC.	1EA
16701-TL	Mini Vise Type Pliers	$2.65

MINI LOCKING PLIERS

"Welding" style clamping pliers. Drop forged jaws. 1-1/2" Throat depth, 1" Jaw capacity, 1/2" dia. jaw pads. For welding, soldering or gluing. Adjustable locking grip with release.

L: 4-3/4" **WT:** .25

STOCK #	DESC.	1EA
16707-TL	Mini Welding Pliers	$2.65

"TEE" HANDLE HEX KEYS

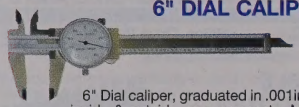
Plastic "T" handles with Chrome Vanadium steel blades, order S.A.E. or Metric

--------SAE--------			--------Metric--------		
3/32"	5/32"	5/16"	2mm	4.5mm	8mm
7/64"	3/16"	3/8"	2.5mm	5mm	10mm
1/8"	7/32"		3mm	5.5mm	
9/64"	1/4"		4mm	6mm	

WT: 2.8

STOCK #	DESC.	1EA	5+EA
5676-TL	SAE Hex Key Wrenches	$7.95	$6.95
5677-TL	Metric Hex Key Wrenches	$9.95	$9.65

6" DIAL CALIPER



6" Dial caliper, graduated in .001in. for both inside & outside measurements. Made from stainless steel. Adjustable & lockable "0" set. Ideal for us who have problem reading those lines on other calipers. Includes padded, hard plastic case.

WT: .78

STOCK #	DESC.	1EA
16700-TL	6" Dial Calipers	$17.95

6" STAINLESS DIGITAL CALIPER

Digital caliper features selctable Inch or mm range. Hardened stainless steel with plastic cased electronics. For ID or OD measurments. "Zero" button for resetting or setting offsets. 6in/ 150mm Max. .0005"/.01mm accuracy/min. reading. Requires a 357A Button cell (Supplied). Stores in foam lined plastic case.

L: 9-1/4" **WT:** .7

STOCK #	DESC.	1EA
17471-TL	6" S/S Digital Calipers	$12.95

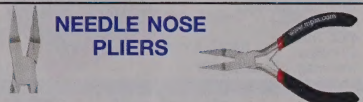
SAE MICROMETER

Machinist, all steel, 0-1"/.001" Caliper micrometer. Handy wood storage case with latching lid.

L: 4-3/8" **WT:** .62

STOCK #	DESC.	1EA
18577-TL	1" Micrometer/Case	$12.95

NEEDLE NOSE PLIERS



Nickel plated, dropped forged, pliers with leaf springs & cushioned dipped vinyl grips. For fine Jewelry or Electronic work.

L: 5-1/2" **WT:** .15

STOCK #	DESC.	1EA	10+EA
15398-TL	Concave Nose Pliers	$1.95	$1.75

MINI LOCK GRIP PLIERS

Drop forged jaws, 4" overall with 5/8" long serrated jaw designed for gripping circular objects. Adjustable locking grip with release.

L: 4" **WT:** .3

STOCK #	DESC.	1EA
16734-TL	Mini Vise Type Pliers	$2.99

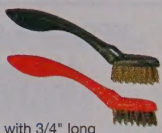
PLASTIC HANDLE BRUSH SET

Industrial cleaning brush set has 1 each of the following brushes: brass bristle; Nylon bristle; & Stainless steel bristle. Each 7" plastic handle brush has 1/2" long bristles in a 1-3/8" X 5/16" pattern.

L: 7" **WT:** .18

STOCK #	DESC.	1EA	5+EA
7467-TL	3pc Brush Set	$1.95	$1.59

PLASTIC HANDLE UTILITY BRUSHES

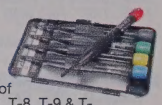


Curved handle cleaning brush with 3/4" long Brass bristles. Handle color varies.

L: 8" **W:** 7/8" **WT:** .1

STOCK #	DESC.	1EA
16847-TL	Brass Utility Brush	$1.20

5PCS. PRECISION TAMPER PROOF DRIVERS



Quality miniature tamper proof Star driver sets contain T-6, T-7, T-8, T-9 & T-10 sizes. Handles have free spinning finger caps. Plastic handles with Nickel-chrome molybdenum steel bits. Includes plastic storage case.

L: 4-3/8" **WT:** .18

STOCK #	DESC.	1EA	5+EA
12093-TL	5Pc. T/P Star Drivers	$6.95	$5.95

MINI SCREWDRIVERS

Miniature screwdriver sets contain 2 Phillips(#0 & #1), 4 flat blade (1.4,2.0,2.4 & 3mm) in a plastic case. Free spinning finger caps. Ideal for glasses, watches, or electronics.

WT: .3

STOCK #	DESC.	1+EA	5+EA
2039-TL	Mini Screwdriver Set	$2.49	$1.98

PRUNING SHEARS

General purpose prunning shears feature precision ground stainless steel blades, spring loaded plastic handles and locking arm. 3/8" max cutting Dia. 1-3/8" cutting length.

L: 8" O/A **WT:** .26

STOCK #	DESC.	1EA
17378-TL	8" Prunning Shears	$1.69

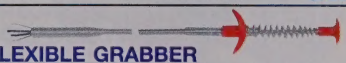
CRAFT SCISSORS

General purpose craft scissors feature precision ground, hardened stainless steel blades with one blade serrated, plastic handles. Pointed nose. 1" cutting length.

L: 4-1/4" **WT:** .07

STOCK #	DESC.	1EA
17656-TL	4-1/4" Craft Scissors	$0.99

FLEXIBLE GRABBER

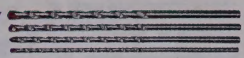


Long reach grabber. 18" flexible shaft with spring handle. Push handle and 4 spring steel "fingers" extend out other end. Use to retrieve small parts dropped where you can't put your arm.

L: 23" **WT:** .12

STOCK #	DESC.	1EA	5+EA
7949-TL	Flex Grabber	$1.29	$0.99

MASONARY DRILL SET



4 pc. Industrial type bits with carbide tips for drilling through concrete walls, floors, & blocks. Set contains 1/4" 5/16", 3/8", and 1/2". 1/2" bit is turned to fit 3/8" drill chucks.

L: 12" **WT:** .9

STOCK #	DESC.	1EA	5+EA
8209-TL	4pc Masonary Drills	$7.95	$6.95

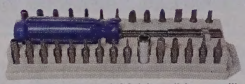
39PCS. SAE BIT/SOCKET SET

Magnetic driver handle and 37 bits/sockets in a spill resistant carry box . Includes the following sizes:
1/8" 5/32", 3/16", 1/4" flat blade
#0, 1, 2 & 3 Phillips #1, 2 & 3 Square
#10, 15, 20, 25, 27, 30, 40 Star
5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 5/16" Hex
3/16", 7/32", 1/4", 5/16", 11/32", 3/8", 7/16", 15/32",1/2" sockets
Hex to 1/4" & 1/4" to Hex drive adapters.

L: 1" Bit **WT:** 1.2

STOCK #	DESC.	1EA	5+EA
12097-TL	39Pc. SAE Driver Bits	$12.95	$11.95

30PCS. DRIVER SET WITH TAMPER PROOF STAR BITS



Magnetic driver handle and 28 bits all in a spill resistant carry box. Includes the following sizes: 7, 8, 9, 10, 15, 20, 25, 27, 30 & 40 Tamper resistant Star ;5/32", 3/16", 1/4" flat blade, #1, 2 & 3 Phillips; 0, 1, 2 & 3 Square; 5/64", 3/32", 1/8", 5/32", 3/16", 7/32" & 1/4" Hex; Hex to 1/4" & 1/4" Hex drive adapters. Ideal for bench or tool box.

L: 1" Bits **WT:** .82

STOCK #	DESC.	1EA	5+EA
12086-TL	30Pc. Set/Star Bits	$24.95	$22.95

TAMPER RESISTANT STAR BITS

Used as security fasteners in equipment. 1/4" driver bits fit in ratchets, drills, handles etc. Available in following sets.
A: Tamper resistant Star Sizes:T- 7,8,9,10,15,20, &25
B: Tamper resistant Star Sizes:T-10,15,20,27,30, &40

WT: 3

STOCK #	DESC.	1EA	5+EA
8551-TL	"A" Tamper Star Bits	$3.95	$3.49
8552-TL	"B" Tamper Star Bits	$3.95	$3.49

SAFETY GLASSES

Medium duty, ANSI (Z87.1) approved plastic safety glasses. Adjustable temple length, Do not fit over all corrective lens glasses. Holes for neck cord (not included).

WT: .09

STOCK #	DESC.	1+EA
18340-TL	ANSI Safety Glasses	$1.95

100 PIECE BIT SET

Vast assortment of hard top locate drive bits.
Chrome/Vanadium steel bits 1" long
Set includes:

9pc Flat Blade	5 pc. Security HEX
8pc Phillips	8 Positive Drive
9 pc HEX mm	9pc Star mm
3pc XZN mm	4pc Square
3pc Torque set	4 pc Spanner
4 pc Tri-wing	9pc Security Star
3pc Clutch Drive	1pc Wingnut (5,6,8mm)
1/4" Sq to 1/4Hex	1/4" to 1/4Hex Socket
1/4" mag. bit holder	Plastic storage Case

SEE WEB FOR DETAILS

WT: 1.7

STOCK #	DESC.	1EA
18571-TL	100pc. Drive Bit Set	$7.95

DOUBLE ENDED TOOL SET

11 Pcs. DriverTool set.
Set includes:
Double end/right angle non rattaching handle
T-10,15 & 20 bits
5,6,7mm Flat blade bits
#1 & 2 Philips bits
#1 & 2 8 pt. Philips

L: 4-1/4" X 1-3/8" "L" Handle **WT:** .4

STOCK #	DESC.	1EA	10+EA
15243-TL	Double End Driver	$8.95	$7.95

22PCS. POWER BIT SET

Magnetic Hex drive adapter and 20 bits all in a spill resistant carry box. Includes the following sizes:
1/8", 3/16", 1/4" flat blade #1, 2 & 3 Phillips
1, 2 & 3 Square 10, 15, 20, 25, 27, 30 & 40 Star
1/8", 3/16", 7/32" & 1/4" Hex
1/4" X 2-1/2" magnetic bit holder. Ideal for bench or tool box.

L: 1" Bit **WT:** .44

STOCK #	DESC.	1EA	5+EA
12088-TL	22Pc. Driver Bits	$7.95	$6.95

33 PIECE SECURITY BIT SET

Set includes:
8 pc. security HEX
12pc security Torx
4 pc Spanner
4 pc Tri-wing
4 Phillips
1/4" mag. bit holder
plastic storage holder

WT: .54

STOCK #	DESC.	1EA	5+EA
12579-TL	Security Bit Set	$14.99	$13.75

20PC. DRIVER BIT SET

20pc. driver set contains:
7 sockets: 5,6,7,8,9,10, 11mm
4 Slotted: 2X 4mm, & 2X 7mm
4 Phillips: 2X #0, 2X #2
4 Star: 2X T15, 2X T20
1 Magnetic Bit Holder

L: Bits: 1" Sockets: 1-3/8" **WT:** .5

STOCK #	DESC.	1EA
17891-TL	20 Pc. Driver Set	$3.95

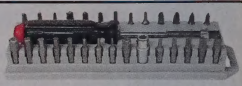
37PCS. RACHET SET

Includes, dual function ratchet handle (socket drive & Bit driver), stubby ratchet screwdriver handle, 5-3/4" O/A flex extension, 1/4" X 2-1/2" magnetic bit holder & 33 bits in a spill resistant carry box. Includes the following bits:
1/8", 3/16", 1/4" flat blade: #1, 2 & 3 Phillips
0, 1, 2 & 3 Square; 10, 15, 20, 25, 27, 30 & 40 Star
5/64", 1/8", 3/16", 7/32", 1/4" & 5/16" Hex
3/16", 7/32", 1/4", 5/16" 11/32", 3/8", 7/16", 15/32",1/2"
Sockets & Hex to 1/4" drive adapter

L: 1" Bits **WT:** 1.5

STOCK #	DESC.	1EA	5+EA
12094-TL	37Pc. Rachet Set	$19.95	$17.95

30PCS. DRIVER BIT SET



Magnetic driver handle and 28 bits all in a spill resistant carry box. Includes the following sizes:
1/8" 5/32", 3/16", 1/4", 9/32 flat blade;
#0, 1, 2 & 3 Phillips #1, 2 & 3 Square
#10, 15, 20, 25, 30 & 40 Star;
5/64", 3/32", 1/8", 5/32", 3/16", 7/32" & 1/4", 5/16" Hex
Hex to 1/4" & 1/4" to Hex drive adapters.

L: 1" Bits **WT:** .92

STOCK #	DESC.	1EA	5+EA
12096-TL	30Pc. Driver Bits	$12.95	$11.95

11PC COMPUTER REPAIR KIT

Basic tool kit
Includes:
IC extractor, tweezers
1/4" & 3/16" nut drivers,
#0 & #1 Phillips
3/16" & 1/8" Flat Blade screwdrivers, T-15 Star driver, 3 prong gripper, 5" X 3/4" [Dia] parts container. Zipper carry case.

WT: .7

STOCK #	DESC.	1EA	5+EA
14053-TL	Computer Tool Kit	$7.95	$6.95

STRAP WRENCH

Strap wrenches with plastic handle and rubber strap. Small for ust on objects up to 5". Strap is 1/2" wide X 3/32" thick with 5-1/2" long handle. Larger size for objects up to 7". Strap is 3/4" wide X 3/16" thick with 8" handle

Small **WT:** .25
Larger **WT:** .55

STOCK #	DESC.	1EA	5+EA
14390-TL	6" Strap wrench	$2.95	$2.49
14391-TL	8" Strap Wrench	$3.79	$3.25
14455-TL	Both Strap Wrenches	$5.95	$4.95

200PCS CABLE TIE & CUTTER

Assortment of multi colored 3" cable ties with a cushion handle cable/tie cutter. Ideal for tagging cables or bundling up wire or cable feeds.

WT: .34

STOCK #	DESC.	1EA	5+EA
12089-TL	200Pc. Cable Ties	$4.49	$3.95

MINI REAMERS

4 piece assortment of Diamond coated reamers. Includes Long taper (5cm), Medium, Fine Taper (3cm), Short, Fat Taper (1.5cm), Bullet, counter sink shape (1.4cm). Long tapered plastic 7.2cm handles. For plastic & wood beads, soft gemstones, modeling etc.

WT: .09

STOCK #	DESC.	1EA
18179-TL	3Pc. Set Diamond Reamers	$2.95

STAINLESS STEEL TWEEZERS

6piece assortment of stainless steel tweezers in a plastic pouch. Includes Offset, blunt, flat pointed etc.

L: 4-1/2"-7-1/2" WT: .4

STOCK #	DESC.	1EA	5+EA
14389-TL	6Pc. S/S Tweezers	$7.95	$6.95

HEAVY DUTY TWEEZERS

Stainless steel industrial tweezers with fiber grips. Standard pointed nose or bent nose to lower fatigue. Ideal for picking up small components or parts. Squeeze to open.

L: 6-1/2 WT: .08

STOCK #	DESC.	1EA	5+EA
4979-TL	Bent Nose Tweezers	$1.95	$1.59
8249-TL	Straight Nose Tweezers	$1.95	$1.69

BENT NOSE TWEEZERS

Stainless steel tweezers with the last 3/4" of the pointed tip bent at approx. 45deg. Tip Not serriated.

L: 5" WT: .06

STOCK #	DESC.	1EA	10+EA
17007-TL	Bent Pointed Tweezers	$2.95	$2.49

STAINLESS TWEEZERS

Stainless steel, sharp point, industrial tweezers. Available either standard straight or curved for lower fatigue. Ideal for picking up small components or parts.

WT: .08

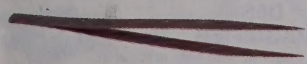
STOCK #	FIG	DESC.	1EA	10+EA
16039-TL	A	5"Straight Nose	$2.95	$2.49
17007-TL	B	5"Curved Nose	$2.95	$2.49
17022-TL	C	4-3/8" Straight Nose	$2.95	$2.49
17023-TL	D	4-3/8"Cutback Nose	$2.95	$2.49
17024-TL	E	5-3/8"Straight Nose	$2.95	$2.49

STAINLESS STEEL PICKS

12 piece assortment of double ended stainless steel hobby picks in a plastic pouch. Various shapes with knurled grips.

L: 6-1/2" WT: .6

STOCK #	DESC.	1EA	5+EA
14388-TL	12Pc. S/S Picks	$6.95	$5.95



SHARP POINTED TWEEZERS

Pointed Stainless Steel tweezers. Ideal for picking up small components or parts.

L: 7-3/4" WT: .08

STOCK #	DESC.	1EA
18575-TL	Sharp Pointed Tweezers	$1.25

STAINLESS STEEL TWEEZERS

5 piece assortment of stainless steel tweezers in a plastic hanging pouch. Includes: needle, spade, bent, blunt & flat.

L: 4-1/8"to 4-5/8"" WT: .15

STOCK #	DESC.	1EA
17538-TL	5Pc. Stainless Tweezers	$3.95

STAINLESS CHISEL SET

6 piece assortment of stainless steel hobby chisels. For working wood, unfired clay or epoxies. Includes plastic storage pouch.

L: 5-7/8" WT: .33

STOCK #	DESC.	1EA
17613-TL	6 Pc. Set Chisel Set	$5.95

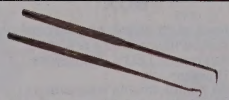
SHARP POINTED TWEEZERS

Very Sharp pointed Stainless Steel tweezers. Ideal for picking up small components or parts.

L: 4-3/4" WT: .03

STOCK #	DESC.	1EA
17126-TL	Sharp Pointed Tweezers	$2.95

SPRING HOOK TOOLS

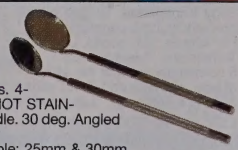


Stainless steel hook style picks used to attach & detach springs and also to untangle jewelry chains.
Tip Style "A": last 3/8" bent 60deg.
Tip Style "B: last 1/2" reverse bend with 1/2 circle loop

L: 7" WT: .05

STOCK #	DESC.	1EA	10+EA
15236-TL	Spring Hook Tip "A"	$0.79	$0.63
15237-TL	Spring Hook Tip "B"	$0.79	$0.63

EXAM MIRRORS

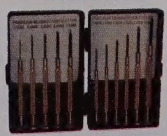


Dental style mirrors. 4-1/4 in long steel (NOT STAINLESS) knurled handle. 30 deg. Angled mirror head.
2 diameters available: 25mm & 30mm

L: 6-1/4" O/A WT: .051/.1

STOCK #	DESC.	1EA
17379-TL	25mm Exam Mirror	$0.69
17380-TL	30mm Exam Mirror	$0.89

11PC. MINI SCREWDRIVERS



11pc. driver set contains: 5 flat blade (1, 1.4, 2.0, 2.4 & 3mm) 6 mini phillips: 1.4, 1.6, 1.8, 2.0, 2.4, 3.0mm. Free spinning finger caps. Includes a plastic case. Ideal for glasses, watches, or electronics.

L: 3" to 4-1/4" WT: .4

STOCK #	DESC.	1EA
17886-TL	11 Pc.Screwdriver Set	$1.95

DENTAL MIRROR

Disposable dental mirror. Plastic handle with 3/4" dia mirror. Approx. 30° handle to mirror angle. Ideal tool for examining electronic equipment or do-it-yourself root canals.

L: 6" WT: .02

STOCK #	DESC.	1EA
17907-TL	Disposable Dental Mirror	$0.79

POINTED TWEEZERS

Sharp point tweezers with fiber finger grips. Ideal for picking up small components or parts.

L: 6-1/2" WT: .06

STOCK #	DESC.	1EA
17619-TL	Sharp Nose Tweezers	$1.59

ANTI STAT TWEEZER SET

Black Antistatic, non- magnetic, non-marring plastic tweezer set. 1ea as follows:
pointed tip,
1/8" flat jaw tip
1/8" rounded tip
1/4" flat tip

L: 4-3/4" W: 5/16" O/A WT: .08

STOCK #	DESC.	1+EA
17623-TL	4pc. Antistatic Tweezers	$3.95

HEAVY DUTY TWEEZERS

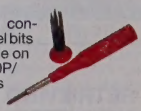
Dip coated plastic grip industrial tweezers. Serrated bent nose to lower fatigue. Ideal for picking up small components or parts. Squeeze to open.

L: 6-3/4" WT: .09

STOCK #	DESC.	1EA
17618-TL	Bent Nose Tweezers	$1.95

THOUSANDS MORE ITEMS ON MPJA.COM

8 IN 1 PRECISION SCREWDRIVERS



Quality miniature screwdriver set contains 4 double ended hardened steel bits with Phillips on one end & flat blade on other as follows: 000P/2mm, 00P/2.5mm, 0P/3mm, 1P/4mm. Bits store in the plastic handle.

L: 4-3/4" WT: .08

STOCK #	DESC.	1EA
17011-TL	8/1 Mini Screwdrivers	$1.99

7PCS. PRECISION SCREWDRIVERS

Quality miniature screwdriver set contain: 00, 0, 1 Phillips, 1.4mm, 2.4mm, 3.0mm Flat Blade sizes. Handles have free spinning finger caps. Plastic handles with steel bits. Includes slide top plastic storage case.

L: 4-3/8" WT: .32

STOCK #	DESC.	1EA
17010-TL	7Pc. Mini Screwdrivers	$2.95

ROTARY TOOL RASPS

5 pc set of High Speed Steel rasps with 1/8" shaft for hobby wood & Plastic projects.
Includes: .27" Dia. Ball, .22" max Dia. Cone, .35" max Dia. Cone, .26"Dia X .52" Cyl, .34"Dia. X .58" Cyl. Plastic storage box. ALL Sizes are Approx.

L: 1-3/4" **WT:** .15

STOCK #	DESC.	1EA
17934-TL	5 PC. Rotary Rasp Set	$2.95

EYEGLASS LOUPE

20X eye loupe with attached White LED mounted to metal eye glass frame. Padded nose piece

WT: .16

STOCK #	DESC.	1EA
18335-TL	Eye Glass Magnifier	$4.95

PLASTIC PARTS CABINET

Portable parts cabinet with 4 Semi transparent, flexible plastic boxs with multiple compartments that slide out. Top opens for additional storage. Top handle with latches for top & side for drop down access to boxes
Each 9" X 4.5" X 1.25" box has 18 compartments & dual latch to hold lid closed.

H: 10" **W:** 11" **D:**17" **WT:** 3

STOCK #	DESC.	1EA
17901-BX	Plastic Parts Cabinet	$19.95

MAGNETIC TOOL BAR

24" Magnetic tool bar. Designed to attach to wall or bench and hold screwdrivers, wrenches, pliers or any steel item. Magnet Length: 22"

L: 24" **W:** 1" H: 1/2 **WT:** 2.4

STOCK #	DESC.	1EA
18280-TL	Magnet Tool Bar	$12.95

PICK-UP MAGNET

Magnet with an "Eye" loop used to retrieve iron & steel items. Will lift in excess of 6lbs.

L: 1-7/8" **W:** 1" **H:** 1-1/2" **WT:** .25

STOCK #	DESC.	1EA
18279-MG	Pick-Up-Magnet	$1.99

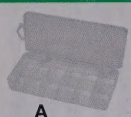
RETRIEVING MAGNETS

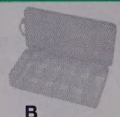
Magnet assemblies used to hold or retrieve steel objects. Cased magnets with Eye bolt for the attachment of rope, cable or as a hold down +for equipment.

12961-MG up to 40lb	2"X 2" X 1/2"	**WT:** .43
12962-MG up to 100lb	2"X 2" X 1"	**WT:** .8
12963-MG up to 150lb	5"X 2" X 1"	**WT:** 1.8
12964-MG up to 225lb	5"X 2" X 2"	**WT:** 3.8

STOCK #	DESC.	1EA	5+EA
12961-MG	40lb Retreiv. Magnet	$7.95	$6.95
12962-MG	100lb Retreiv. Magnet	$10.95	$8.95
12963-MG	150lb Retreiv. Magnet	$14.95	$11.95
12964-MG	225lb Retreiv. Magnet	$29.95	$22.95

PLASTIC PARTS BOXES


A

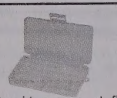

B

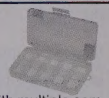
Semi transparent, flexible plastic boxes with multiple compartments. For screws, fish hooks, LED's, Transistors, Resistors etc. 6-1/8" L X 3-1/2" W X 1-1/8" D overall.
A: 12 compartments: All measure 7/8" wide X 1-3/8" long X 7/8"deep.
B: 10 total compartments: 2 measure 7/8" wide X 2-3/4 long X 1" deep. 8 measure 7/8" W X 1-3/8" L X 1" D

L: 6-1/8" **W:** 3-1/2" **T:**1-1/8" **WT:** .17

STOCK #	DESC.	1EA	10+EA
6479-BX	12 Compartment Box	$1.85	$1.69
5994-BX	10 Compartment Box	$1.75	$1.59

PLASTIC PARTS BOX



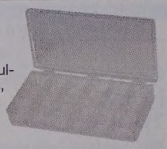


Semi transparent, flexible plastic box with multiple compartments. For screws, fish hooks, LED's, Transistors, Resistors etc. Latch holds lid closed.
5 compartments that run length of box: 3 measure 7/8" wide X 6-3/4" long X 3/4"deep. 2 others are 7/8" wide X 3-3/8" long.
10 compartments that all measure 1-5/16" wide X 1-11/16" long X 3/4"deep.

L: 7" **W:** 3-3/4" **T:**1-1/4" **WT:** .14

STOCK #	DESC.	1EA
17614-BX	5 Compartment Box	$2.59
17616-BX	10 Compartment Box	$1.99

PLASTIC PARTS BOX

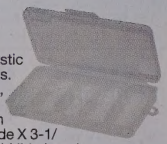


Hard, clear plastic box with multiple compartments. For screws, fish hooks, LED's, Transistors, Resistors etc.
18 compartments measure 1-1/4" sq. X 1-1/8"deep.

L: 8-1/4" **W:** 4-1/4" **T:**1-3/8" **WT:** .34

STOCK #	DESC.	1EA	25+EA
16042-BX	Small18 Comp. Box	$1.95	$1.49

PLASTIC PARTS BOX



Semi transparent, flexible plastic box with multiple compartments. For screws, fish hooks, LED's, Transistors, Resistors etc.
5 compartments that run width of box: all measure 1-5/16" wide X 3-1/2" long X 3/4"deep. Latch hold lid closed.

L: 7" **W:** 3-3/4" **T:**1-1/4" **WT:** .14

STOCK #	DESC.	1EA
17615-BX 5	Short Compartment Box	$1.99

HANDLE MAGNETS

Magnet assemblies used to hold or retrieve steel objects. Cased magnets with metal handle

12956-MG up to 25lb	1-1/16"X 3/4" X 2"	**WT:** .22
12957-MG up to 50lb	2"X 3/4" X 2"	**WT:** .4
12958-MG up to 100lb	4"X 1/2" X 2"	**WT:** .75
12959-MG up to 150lb	5"X 2" X 5-1/2"	**WT:** 2.4
12960-MG up to 225lb	5-1/4 X 2" X 4-1/2	**WT:** 4.6

STOCK #	DESC.	1EA	5+EA
12956-MG	25lb Handle Magnet	$5.95	$4.95
12957-MG	50lb Handle Magnet	$7.95	$6.95
12958-MG	100lb Handle Magnet	$10.95	$8.95
12959-MG	150lb Handle Magnet	$17.95	$13.95
12960-MG	225lb Handle Magnet	$34.95	$26.95

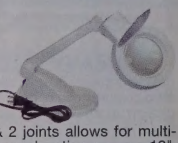
DESK LAMP & MAGNIFIER

Adjustable desk/bench lamp with 5" dia, 3 diopter lens. 8" Circular "Cool White" fluorescent lamp surrounding the lens. 2 metal arms with 3 joints allows for multi-positions. Max parallel surface elevation approx.11". Approx. 5.5" Max. Forward extension. 6ft. 115VAC cord, power switch on lamp head. Ideal for collectors, jewelers, electronic repairs. UL Listed

WT: 15

STOCK #	DESC.	1EA
17598-TL	Slide Arm Lamp/Magnifier	$59.95

DESK LAMP & MAGNIFIER

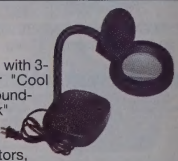


Adjustable desk/bench lamp with 3-1/2" dia, 3.5X lens. Circular "Cool White" fluorescent lamp surrounding the lens. Plastic arm & 2 joints allows for multi-positions. Max parallel surface elevation approx. 12". 6ft. 115VAC cord, power switch on base. Ideal for collectors, jewelers, electronic repairs.

WT: 2.9

STOCK #	DESC.	1EA
17926-TL	3.5X Desk Lamp/Magnifier	$17.95

DESK LAMP & MAGNIFIER



Adjustable desk/bench lamp with 3-1/4" dia, 5X lens. Circular "Cool White" fluorescent lamp surrounding the lens. 10in. "goose neck" allows for multi-positions. 6ft. 115VAC cord, power switch on base. Ideal for collectors, jewlers, electronic repairs.

WT: 2.6

STOCK #	DESC.	1EA
16518-TL	Desk Lamp/Magnifier	$19.95

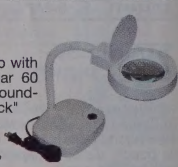
DESK LAMP & MAGNIFIER

Adjustable desk/bench lamp with 4" dia, 2X lens. Circular "Cool White" fluorescent lamp surrounding the lens. 2 joint arm allows for multi-positions. Max parallel surface elevation approx. 13". 6ft. 115VAC cord, power switch on base. Ideal for collectors, jewlers, electronic repairs.

WT: 3.1

STOCK #	DESC.	1EA
17663-TL	Desk Lamp/2X Magnifier	$24.95

DESK LAMP & MAGNIFIER



Adjustable desk/bench lamp with 3-1/4" dia, 5X lens. Circular 60 White superbrite LEDs surrounding the lens. 10in. "goose neck" allows for multi-positions. 6ft. 115VAC cord, power switch on base. Ideal for collectors, jewlers, electronic repairs.

WT: 2.9

STOCK #	DESC.	1EA
17927-TL	White LED Lamp/Magnifier	$29.95

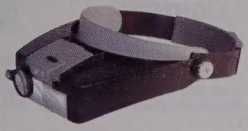
DESK MAGNIFIER

2.5X magnifier with fully articulated neck, 90 X 45mm rectanglar graded plastic lens. Lighted by 3 white LEDs mounted in on end. Slide power switch on top face. 4-3/4" Dia. Base, 5-1/4" X 3-3/4" lens assembly. Max neck height: 9in. Requires 2 "AAA" batteries (Not Included).

WT: 1.6

STOCK #	DESC.	1EA
17493-LN	LED Lighted Magnifier	$6.95

LIGHTED 3 LEVEL MAGNIFIER



Flip up magnifier with adjustable headband & 3 levels of magnification. 1st. level is 1.5X, 2nd. lens folds down to increase magnification by 1.5X, 3rd. Lens rotates down over Right eye to increase magnification by 7.5X. Dual LEDs provide illumination. Do not interfere with eyeglasses, & flip up out of the way without removing from head. Requires 2"AAA" cells (Not Included)

WT: .5

STOCK #	DESC.	1EA
18336-TL	3 Level Magnifier	$6.95

BINOCULAR MAGNIFIERS

5X magnifier with adjustable padded headband. Optical grade Acrylic lens. Do not interfere with eye or safety glasses. Flip up out of the way without removing from head. Made in USA.

WT: .41

STOCK #	DESC.	1EA
17653-TL	USA Binocular Magnifier	$12.95

2.5X BINOCULAR MAGNIFIERS

Professional OVP , 2.5X magnifier with adjustable padded headband. 8in. Focal length. Optical glass lens. Do not interfere with eye or safety glasses. Flip up out of the way without removing from head. Made in USA.

WT: .55

STOCK #	DESC.	1EA
17654-TL	OVP 2.5X Binocular Magnifier	$49.95

TABLE TOP MAGNIFIER

5X magnifier with glass lens & plastic base. 2-1/2" X 1-7/8" lens. Base open on 1 side. Ideal for stamps, coins or jewelry work.

W: 3-3/16" D: 2-5/8" H: 2-7/8" WT: .7

STOCK #	DESC.	1EA
16703-LN	Table Top Magnifier	$2.50

DUAL LENS MAGNIFIER

10X Plastic eye loupe with dual lens. Removable lower lens for less mag. but wider field. Used to do watch & jewelery repair, and to check circuit boards.

Dia:1-1/2" T: 1-1/2" WT: .03

STOCK #	DESC.	1EA
17283-LN	Dual Lens Eye-Loupe	$1.95

DESK TOP MAGNIFIER

Adjustable desk/bench magnifier with 4.5" dia, 2 X lens. 10in. "goose neck" allows for multi-positions. Ideal for collectors, jewlers, electronic repairs.

WT: 2.2

STOCK #	DESC.	1EA
16725-LN	Desk Top Magnifier	$9.95

GIANT FOLDING LENS

Folding magnifier with a quality 4" Dia. glass lens. 7" tall when open & 1-5/8" folded. 6-1/2" X 5-1/4" open bottom has inch/cm scales. Ideal for collectors, jewlers, electronic repairs.

L: 6-1/2" W: 5-1/4" T: 7" WT: 1

STOCK #	DESC.	1EA	5+EA
0079-LN	Giant Folding Lens	$6.95	$5.95

SMALLER FOLDING LENSES

Smaller and more compact than our Giant lens, these folding magnifiers have open bottom with inch/cm scales. Ideal for collectors, jewlers, electronic repairs.

14042-LN 4-1/8" tall open X 3/4" folded. 3-5/8" X 3-1/4" Base WT: .16

14043-LN 5" tall open X 1" folded. 3-5/8" X 4-1/4" Base WT: .3

STOCK #	DESC.	1EA	5+EA
14042-LN	Small Folding Lens	$1.95	$1.39
14043-LN	Medium Folding Lens	$2.49	$1.69

FOLDING POCKET MAGNIFIERS

Folding 10X magnifier. Folds into 3-1/2" x 2-1/2" protective case. Ideal for school, or reading the fine print on your insurance.

L: 3-1/2" W: 2-1/2" WT: .3

STOCK #	DESC.	1EA	5+EA
8251-LN	Folding Magnifier	$5.95	$4.95

EYE LOUPE MAGNIFIERS

Plastic eye loupes used to do watch & jewelery repair, and to check circuit boards.

Dia:1-1/2" T: 1-1/4" WT: .03

STOCK #	DESC.	1EA	5+EA
7433-LN	10X Eye Loupe	$1.95	$1.49

MAGNIFIER SET

12 Pc. set of Magnifiers with Metal handles & glass lens. Perfect for schools, Labs, Retail.
Includes 4pcs. each as follows:
10X 2in. Dia. X 5" long
8X 2.5in. Dia. X 5-3/4" long
6X 3in. Dia. X 6-1/2 long.
Includes plastic counter top stand

WT: 3.6

STOCK #	DESC.	1EA
17537-LN	Metal Handle Magnifier Set	$19.95

MULTI MAGNIFIER

Round, Plastic magnifier with 8 different magnifications (5X-12X). Internal wheel rotates to expose the different lenses.

Dia: 3-1/2" T: 3/4" WT: .2

STOCK #	DESC.	1EA	5+EA
15195-LN	Multi Magnifier	$3.95	$3.25

LIGHTED HELPING HANDS

Versital tool with cast iron base,2 alligator clips on a cross arm, that move & adjust, a 3-1/2in. 2X magnifier illuminated by 2 Superbrite LEDs and a soldering iron stand. leaving your hands free. Requires 3 "AAA" cells (Not included)

H: 6-3/4" WT: 1.7

STOCK #	DESC.	1EA
17932-TL	Lighted/Mag.Helping Hands	$9.95

HELPING HANDS

A must for circuit board, model or jewelry work, cast iron base with 2 alligator clips on a cross arm, move & adjust every which way, leaving your hands free, also available with 2-1/2" dia. magnifying lens.

H: 6" WT: 1.4

STOCK #	DESC.	1EA	5+EA
1006-TL	Helping Hands no Lens	$4.00	$3.75
3628-TL	Helping Hands & Lens	$5.50	$4.95

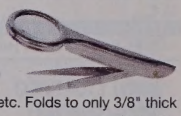
LARGE HELPING HANDS

Round cast iron base with 3-1/2" dia. glass magnifying lens, 2 alligator clips on a cross arm. Move & adjust every which way, leaving your hands free, A must for circuit board, model or jewelry work.

H: 8-1/2" WT: 1.4

STOCK #	DESC.	1+EA
16037-TL	Helping Hands & Lens	$5.95

TWEEZERS WITH MAGNIFIER



Stainless steel tweezer with tached 3X magnifier.
Ideal for sorting small parts etc. Folds to only 3/8" thick

L: 3-5/8" W: 1-1/4" WT: .05

STOCK #	DESC.	1EA	5+EA
9186-TL	Tweezer/ Magnifier	$1.95	$1.49

UVTHIN POCKET MAGNIFIER

Thin pocket magnifier with a mini UV & a white superbrite LED for illumination. Switch select of UV or White light 14X magnification glass lens. Includes 2 CR2016 coin cells. soft protective pouch. Ideal for collectors, jewlers, electronic repairs.

L: 4" W: 1-1/2" T: 5/16" WT: .09

STOCK #	DESC.	1EA
18338-LN	Thin Pocket Magnifier	$3.95

THIN POCKET MAGNIFIER

Thin pocket magnifier with a white mini superbrite LED for illumination. 10X magnification glass lens. Includes 2 CR2016 coin cells, soft protective pouch. Ideal for collectors, jewlers, electronic repairs.

L: 3-5/8" W: 1-3/8" T: 5/16" WT: .07

STOCK #	DESC.	1EA
17931-LN	Thin Pocket Magnifier	$1.99

LIGHTED HAND MICROSCOPE

30X hand held magnifier with adj. focus and light source. Requiers 2 "AA" cells (not included). Black plastic case with clear plastic end for added illumination. Soft plastic carry pouch.

L: 5-3/8" **W:** 1-7/8" **T:** 15/16" **WT:** .18

STOCK #	DESC.	1EA
16813-OP	Handheld Microscope	$4.95

LIGHTED POCKET MAGNIFIER

Pocket magnifier with a white mini LED for illumination. 10X magnification. Requires 2 "AAA" cells (not supplied.) Ideal for collectors, jewlers, electronic repairs.
L: 3-5/8" **W:** 1-1/8" **T:** 5/8" **WT:** .07

STOCK #	DESC.	1EA
16517-LN	Lighted Pocket Magnifier	$1.95

LIGHTED EYE LOUPE

10X power, plastic eye loupe with a super brite white LED. Uses single Coin Cell (included).
L: 1-3/8" **WT:** .06

STOCK #	DESC.	1EA
17651-LN	Lighted Eye Loupe	$2.49

LIGHTED MAGNIFIER

Close focus (35mm) Handheld 10X magnifier with plastic case and plastic circular lens. Required 2 "C" cells (Not Supplied). Replaceable incandescent bulb. Slide switch on top.
L: 8" **WT:** .3

STOCK #	DESC.	1EA
17491-LN	Hand Held Magnifier	$3.50

MINI LIGHTED MAGNIFIER

Pocket magnifier with 2 white mini LED for illumination. 20X magnification. Slide action switch. Uses 3 "LR927" coin cells (supplied.) Includes mini spaller to access batteries & Padded plastic box. Ideal for collectors, jewlers, electronic repairs.
L: 1-7/8" **W:** 1" **T:** 1" **WT:** .23

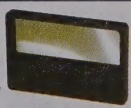
STOCK #	DESC.	1EA
17593-LN	Mini Lighted Magnifier	$7.95

LIGHTED POCKET MAGNIFIER

Pocket magnifier with a white mini LED for illumination. 10X magnification. Alternate action switch. Uses 3 "LR1130" coin cells (supplied.) Includes mini screwdriver & Padded plastic box. Ideal for collectors, jewlers, electronic repairs.
L: 2-3/4" **W:** 1-1/4" **T:** 7/8" **WT:** .24

STOCK #	DESC.	1EA
17592-LN	Lighted Pocket Magnifier	$4.92

LIGHTED MAGNIFIER



3X power, pocket sized, plastic magnifier with a super brite mini white LED. Uses single Coin Cell (included).
L: 3-3/8" **W:** 2-1/4" **T:** 5/16" **WT:** .073

STOCK #	DESC.	1EA
17652-LN	Lighted Card Magnifier	$1.95

10X EYE LOUPE/ UV LEDS

Pocket magnifier with mini Ultraviolet LED illumination. 10X magnification, 21mm focal length. Glass triplet lens in stainless housing. Slide action switch. Uses 3 "LR927" coin cells (supplied.) Includes mini spanner to access batteries & leather case. Ideal for collectors, jewlers, electronic repairs.
L: 1-7/8" **W:** 1" **H:** 1" **WT:** .21

STOCK #	DESC.	1EA
18079-TL	10X Loupe/UV LEDs	$7.95

UV/WHITE LED FLASHLIGHT LASER POINTER

LED "Stubby" flashlight with 4 White super bright LEDs, 4 Ultra Violet LEDs and a Red LASER pointer. Titanium colored aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). 4 Step Alternate action push button switch on side (ON White LEDs only/ON UV LEDs only/ON LASER only/OFF. Includes 2" strap and soft belt pouch.
NOTE: CLASS IIIA Laser <5mW. Do not shine into eyes! DO NOT EXPOSE Eyes or Skin to UV Light!
L: 4-1/2" **WT:** .23

STOCK #	DESC.	1+EA
17645-TL	UV/White LED Flashlight/LASER	$12.95

UV FLASHLIGHT

Medium duty LED "Stubby" UV flashlight. 8 ULTRA-VIOLET LEDs in aluminum case for corrosion resistance. Fixed focus lens. Requires 3 "AAA" cells (not supplied). Alternate action push button switch on back end. Includes 4" strap. For currency examination, chemicial analysis, gem indentification etc.
L: 4" **WT:** .28

STOCK #	DESC.	1+EA
17346-TL	8 LED UV Flashlight	$12.95

UV LIGHTED POCKET MAGNIFIER

Pocket mini microscope with dual Ultraviolet mini LED illumination. 45X magnification. Glass lens in plastic housing. Slide action switch. Uses 3 "LR927" coin cells (supplied.) & fake leather case. Ideal for collectors, jewlers, etc.
L: 1-3/4" **WT:** .05

STOCK #	DESC.	1EA
18080-TL	Pocket Mini UV Microscope	$4.95

MULTI BIKE LIGHT

Bike light with White super bright LED in plastic case. Includes a handle bar mount and a head band mount. 4 position push button switch: (LOW, HIGH, STROBE, OFF). Requires 3 "AAA" cells (Not supplied)
L: 4" O/L" **W:** 2-3/4" **WT:** .37

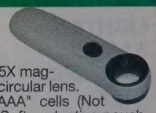
STOCK #	DESC.	1+EA
17377-TL	LED Bike/Head Light	$6.95

27 LED WORKLIGHT

Mini worklight with 24 super bright white LEDs on face with 3 more on front for use a flashlight. Plastic swivel hook on end for hanging and a strong magnet on back for attaching to steel. 4 position Push button switch. Required 3 "AAA" batteries (Included)
L: 3-3/4" **W:** 2-1/2" **T:** 1-1/2" **WT:** .24

STOCK #	DESC.	1EA
18583-TL	27 LED Mini Worklight	$4.95

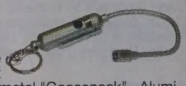
LIGHTED MAGNIFIER



Close focus (35mm) Handheld 15X magnifier with plastic case and glass circular lens. Dual White LEDs, Requires 3"AAA" cells (Not Supplied). Slide switch on top. Soft protective pouch.
L: 5-1/4" **WT:** .13

STOCK #	DESC.	1EA
17929-LN	Hand Held 15X Magnifier	$9.95

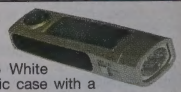
GOOSENECK LED LIGHT



Mini LED flashlight. Single White super bright LED at the end of a 4-1/2" flexable metal "Gooseneck". Aluminum case holds 3 type AG13 "button" cells (supplied). Alternate action push button switch on side. Set includes key chain and removable pocket clip.
L: 2-1/4" (Body) DIA: 9/16" (Body) **WT:** .26

STOCK #	DESC.	1+EA
15996-TL	LED Gooseneck Light	$3.95

SOLAR FLASHLIGHT



Solar charged flashlight. 5 White super bright LEDs in plastic case with a .22W Solar Panel. 6hr. exposer to sun charges 2 "AAA" Ni-MH cell for up to 3hr. of light. Includes small compass in handle and power switch on side.
L: 6" **WT:** .2

STOCK #	DESC.	1+EA
17381-TL	5 LED Solar Flashlight	$4.95

LED FINGERLIGHT

4 pack of Unique, "finger" flashlights that straps to your finger, pen & tools with a hook-n-loop strap. White LED uses 3 replaceable AG10 coin cells (Included). Slide switch on top. Assorted body colors.
L: 1-5/8" **WT:** .1

STOCK #	DESC.	1EA
16711-TL	4 pack Finger Flashlights	$2.95

9 LED FLASHLIGHT

Light duty LED "Stubby" flashlight. 9 White super bright LEDs in Titanium colored aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). Alternate action push button switch on back end. Includes 2" strap.
L: 3-1/4" **WT:** .08

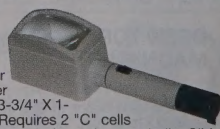
STOCK #	DESC.	1+EA
17018-TL	9 LED Stubby Flashlight	$1.95

9 LED FLASHLIGHT

Light duty LED "Stubby" flashlight. 9 White super bright LEDs in Black colored aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). Alternate action push button switch on back end. Includes 2" strap.
L: 3-1/4" **WT:** .08

STOCK #	DESC.	1+EA
18581-TL	9 LED Black Stubby Flashlight	$0.99

LIGHTED MAGNIFIER



Lighted Handheld or surface 1.5X magnifier with plastic case and 3-3/4" X 1-7/8"rectangular lens. Requires 2 "C" cells (Not Supplied). Replaceable incandescent bulb. Slide switch on top.
L: 12" **W:** 3" **H:** 3-1/2" **WT:** .3

STOCK #	DESC.	1EA
17872-TL	Lighted Hand Magnifier	$5.95

3 LED FLASHLIGHTS

Light duty LED "Stubby" flashlight. 3 White ultra bright LEDs in colored aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). Alternate action push button switch on back end. Includes 2" strap.

L: 3-1/4" **WT:** .07

STOCK #	DESC.	1+EA
17649-TL	3 LED Flashlight-Titainium Case	$1.95
18326-TL	3 LED Flashlight-Black Case	$1.95
18325-TL	3 LED Flashlight-Red Case	$1.95

WHITE FLASHLIGHT LASER POINTER

LED "Stubby" flashlight with 8 White super bright LEDs and a Red LASER pointer. Titanium colored aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). 3 Step Alternate action push button switch on side (ON LED only /ON LASER only/OFF. Includes 2" strap and soft belt pouch. NOTE: CLASS IIIA Laser <5mW . Do not shine into eyes!

L: 4-1/2" **WT:** .32

STOCK #	DESC.	1+EA
17475-TL	White LED Flashlight/LASER	$3.95

GREEN/WHITE FLASHLIGHT LASER POINTER

LED "Stubby" flashlight with 4 White super bright LEDs, 4 Green Super brightLEDs and a Red LASER pointer. Titanium colored aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). 4 Step Alternate action push button switch on side (ON White LEDs only/ ON Green LEDs only/ON LASER only/OFF. Includes 2" strap.
NOTE: CLASS IIIA Laser <5mW. Do not shine into eyes!

L: 4-1/2" **WT:** .2

STOCK #	DESC.	1+EA
17911-TL	G/W LED Flashlight/LASER	$5.95

8 LED FLASHLIGHT

Medium duty LED "Stubby" flashlight. 8 White super bright LEDs in aluminum case for corrosion resistance. Fixed focus lens. Requires 3 "AAA" cells (not supplied). Alternate action push button switch on back end. Includes 4" strap.

L: 4" **WT:** .18

STOCK #	DESC.	1+EA
15984-TL	8 LED Stubby Flashlight	$7.95

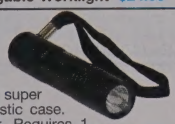
30 LED WORKLIGHT

Rechargable round style worklight with 30 super bright white LEDs. Approx. 3hr. run time on full charge. Plastic hook on top for hanging. Push button switch on base. Includes UL listed AC charger pac

L: 11-1/4" **WT:** 1.3

STOCK #	DESC.	1EA
16743-TL	30 LED Rechargable Worklight	$24.95

MINI SUPERBRIGHT FLASHLIGHT

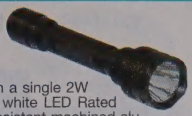


Flashlight with a single White super bright white LED. Black, plastic case. Fixed focus lens & reflector. Requires 1 "AAA" cell (Not supplied). Alternate action push button switch on back. Includes 4" strap.

L: 3-5/8" **D:** 13/16" **WT:** .08

STOCK #	DESC.	1+EA
17482-TL	Superbright Plastic Flashlight	$1.95

2W SUPERBRIGHT FLASHLIGHT



Heavy Duty Flashlight with a single 2W CREE White super bright white LED Rated 70Lumens. Black, water resistant machined aluminum case. Fixed focus lens & reflector. Requires 2 "AA" cells (Not supplied). Alternate action push button switch on back. Includes belt pouch.

L: 6-1/4" **D:** 1-5/8" **WT:** .34

STOCK #	DESC.	1+EA
17912-TL	Heavy Duty 2W LED Flashlight	$14.00

3W SUPERBRIGHT FLASHLIGHT

Heavy Duty Flashlight with a single 3W CREE White super bright white LED Rated 100-120Lumens. Black, water resistant machined aluminum case. Fixed focus lens & reflector. Requires 3 "AA" cells (Not supplied). Alternate action push button switch on back. Includes belt pouch.

L: 8-1/4" **D:** 1-7/8" **WT:** .48

STOCK #	DESC.	1+EA
17766-TL	Heavy Duty 3W LED Flashlight	$24.95

5W SUPERBRIGHT FLASHLIGHT

Heavy Duty Flashlight with a single 5W CREE White super bright white LED Rated 160-180 Lumens. Black, water resistant machined aluminum case. Fixed focus lens & reflector. Requires 2 "D" cells (Not supplied). Alternate action push button switch on side. Includes belt pouch.

L: 9-3/8" **D:** 2-5/16" **WT:** 1

STOCK #	DESC.	1+EA
17767-TL	Heavy Duty 5W LED Flashlight	$39.95

WEATHERPROOF FLASHLIGHT

Medium duty, weatherproof LED "Stubby" flashlight. 7 White ultra bright LEDs in shock resistant aluminum case with rubberized coating. Fixed focus lens. Requires 3 "AAA" cells (not supplied). Push button switch on back end selects HI/MEDIUM/FLASH/OFF. Includes 6" strap.

L: 3-7/8" **WT:** .16

STOCK #	DESC.	1+EA
18329-TL	Weatherproof 7 LED Flashlight	$4.95

LASER POINTER & FLASHLIGHT

Thin LASER Pointer with flashlight. Only a 3/8" thick and contains 2 super bright white LEDs and a Class III, <5mW, 650nm Red LASER Pointer. Push button switches on top for LASER & LEDs. Uses 3 LR1130 button cells (included)

L: 3-3/8" **W:** 1" **T:** 3/8" **WT:** .06

STOCK #	DESC.	1+EA
18331-TL	LASER Pointer LED Flashlight	$2.95

RED/WHITE FLASHLIGHT LASER POINTER

LED "Stubby" flashlight with 4 White super bright LEDs, 4 Red Super brightLEDs and a Red LASER pointer. Titanium colored aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). 4 Step Alternate action push button switch on side (ON White LEDs only/ON Red LEDs only/ON LASER only/OFF. Includes 2" strap.
NOTE: CLASS IIIA Laser <5mW. Do not shine into eyes!

L: 4-1/2" **WT:** .32

STOCK #	DESC.	1+EA
17474-TL	Color LED Flashlight/LASER	$4.95

EMERGENCY RADIO

Unique Hand crank Radio/Flashlight/Siren. Turning the Hand crank for 1 minute will power the Radio/ Siren or light for up 90 minutes. Switch selection of 1 or 3 Superbright white LEDs. Std. AM/FM Radio with telescoping Antenna. 1/8" jack for headphones (Not Included)

L: 7-1/2" **WT:** .7

STOCK #	DESC.	1EA
17646-TL	Emergency Radio/Light	$19.95

LED LAMP

30 Superbright LED Plastic desk type light operates on 3 "D" cells (not supplied). Switch provides 2 lighting levels: 1/3 (10LEDs) and Full (30LEDs). Top loop for hanging. Rubberized grip for use as flashlight.

H: 10-1/4" **WT:** .9

STOCK #	DESC.	1+EA
18333-TL	30 LED Desk Lamp	$8.95

HURRICANE LANTERN

Smaller Replica of those old style kerosene lanterns with a modern twist. These use 2 "AA" batteries (not included) & 12 super bright white LEDs. Dimmer control to adjust light level. Carry, Hang or sit on base.

H: 7-1/2 (Ex. Handle) **WT:** .8

STOCK #	DESC.	1EA
18582-TL	12 LED Hurricane Lantern	$5.95

16 LED CAMP LIGHT

Compact camp or emergency lantern features 16 Superbrite white LEDs, Handle with hook, and a compass on the top. Requires 4 "C" cells (not included)

H: 8-3/8" (Ex. Handle) **WT:** 1

STOCK #	DESC.	1EA
17647-TL	16 LED Camp Lantern	$11.95

28 LED FLASHLIGHT

LED flashlight with 28 White super bright LEDs. Titanium colored aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). Alternate action push button switch on back. Includes 2" strap and soft belt pouch.

L: 4-1/4" **Dia:** 1-3/4" O/A **WT:** .34

STOCK #	DESC.	1+EA
17476-TL	28 LED Flashlight	$5.95

21 LED FLASHLIGHT

LED flashlight with 21 White super bright LEDs. Aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). Alternate action push button switch on back. Includes 2" strap and soft belt pouch.

L: 4" **Dia:** 1-1/2" O/A **WT:** .29

STOCK #	DESC.	1+EA
18178-TL	21 LED Flashlight	$4.95

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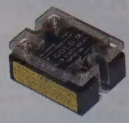
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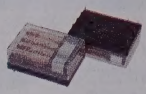
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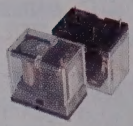
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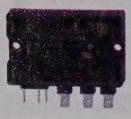
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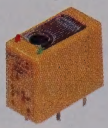
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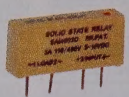

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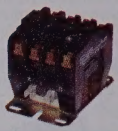
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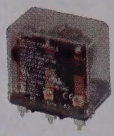
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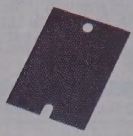
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STOCK #	FIG.	COIL	CONTACTS	RATINGS	CONN.	DIM. LWH	MFG. PART #	LISTED	WT.	1EA	12+EA
18474-RL	B	5VDC	DPDT	1A@24DC/125VAC Res	PC/SKT	13/16" x 3/8" x 1/2"	Forward Ind./FRT2H-S DC5	UL/us/c/CE	.02	$1.95	----
18482-RL	F	5VDC	DPDT	5A @ 250VAC/47ohm	PC	2-7/8" x1/2" x 1"	MAGNECRAFT/W76EURCPCX-61	UL/CSA	.04	$5.95	----
18454-RL	C	12VDC	SPDT	3A@125VAC ind. /28V Res.	PC	1-3/16" x 3/4" x 1-1/4"	Essex/RBM/MS64-901	UL/CSA	.06	$1.25	$0.99
18545-RL	E	12VDC	SPDT	NO-40A@12VDC/NC-30A	QC1	1-1/8" x 1-1/4" x 1-5/8"	PROLINK/SPDT40A	-	.08	$1.95	Call
18502-RL	I	120VAC	4PDT	3A@125VACind./28V Res.	PC/SKT	1-1/8" x 7/8" x 1-1/4"	P&B/KH5569-1	CSA	.1	$4.95	Call
9139-RL	J	24VDC	SPDT	10A@125VAC/6A@277VAC	PC	5/8" x 3/4" x 3/4"	AROMAT/PN JS1E-24V	UL	.027	$1.95	$1.75
4197-RL	K	48VDC/2.8Kohm	4PDT	1A@120VAC/30VDC Res. 1/10hp@120VAC	PC	1-1/4" x 13/16" x 1/2"	FUJITSU/PN FRL414D048/04CT	-	.03	$0.99	$0.79
12120-RL	L	24VDC	SPST-NO	15A@250VAC/24VDC Res.	PC	1-3/16" x 3/4" x 1-1/8"	OMRON /G4W-1112P-VD-TV8-HP	UL	.06	$1.95	$1.75
15831-RL	N	24VDC	3PST-NO	35A/600VAC Resistive	QC1	2-1/4" x 2-1/2" x 2-7/8"	P&B/PN P31-E1014-1	UL	.95	$3.50	$3.25
				25FLA/150LRA/240VAC/pole Motor Load							
18230-RL	R	24VDC	4PST-NO	35A/600VAC Resistive	QC1	3-3/4" x 2-1/2"x 2-7/8"	P&B/PN P41C47DH0103Z03	UL/CSA	1	$5.95	----
				25FLA/150LRA/240VAC/pole							
18067-RL	M	24VAC	DPST-NO	40A/277VAC/28VDC Resistive	SCW	2-1/2" x 2-1/2" x 2-1/2"	MAGNECRAFT/W199AX-8	UL/CSA/CE	.52	$10.95	----
				1-1/2hp/120-600VAC Motor							
18255-RL	S	120VAC	3PDT	30A/75LRA @ 277V/Pole	PC	2" x 2-1/8" x 2-1/8"	DELTROL/375P	UL/us/c/CE	.3	$9.95	$8.95
16726-RL	U	110VAC	DPDT	1/2 hp/120VAC 12A res/240VAC	QC2	1-3/4" x 13/16" x 1-5	OMRON /LY2-UA-006244	UL	.2	$2.95	$2.75
17769-RL	A	3-32VDC	SPST-NO	35A @ 280VAC	SCW	3-7/8" x 1-3/4" x 4-1/4"	CRYDOM/CMRD2435	UL/CSA/VDE	1	$24.95	----
				DIN Rail Mount Solid State Relay AC loads only							
17844-RL	O	5VDC	2X SPST-NO	6A @ 240VAC	QC2/header	3-3/16" x 5/8" x 1-5/8"	Mitsubshi/SF12D-8329	-----	.32	$5.95	----
				Solid State Relay AC loads only							
18193-RL	D	3-15VDC	SPST-NO	2A@ 110VDC	PC	1-1/4" x 3/8" x 3/4"	Gold Control/SDI102D	------	.03	$4.95	$4.49
				Solid State Relay DC loads only							
18194-RL	Q	3-15VDC	SPST-NO	3A @ 480VAC	PC	1-11/16" x 3/8" x 3/4"	Gold Control/SAI4003D	------	.03	$5.95	$5.49
				NEW Solid State Relay AC loads only							
17154-RL	G	3-32VDC	SPST-NO	10A @ 480VAC	SCW	2-7/8" x 1-1/2" x 1"	Gold Control/SAP4810D	------	.11	$7.95	$6.95
				NEW Solid State Relay AC loads only							
17155-RL	H	3-32VDC	SPST-NO	25A @ 480VAC	SCW	2-7/8" x 1-1/2" x 1"	Gold Control/SAP4825D	UL	.11	$11.95	$9.95
				NEW Solid State Relay AC loads only							
17157-RL	H	3-32VDC	SPST-NO	40A @ 480VAC	SCW	2-7/8" x 1-1/2" x 1"	Gold Control/SAP4840D	UL	.11	$15.95	$11.95
				NEW Solid State Relay AC loads only							
17288-RL	G	3.5-32VDC	SPST-NO	20A @ 480VDC	SCW	2-1/4" x 1-3/4" x 1-1/4"	Gold Control/SDP4020D	CE	.2	$12.95	$9.95
				NEW Solid State Relay DC loads only							
17289-RL	G	3.5-32VDC	SPST-NO	40A @ 480VDC	SCW	2-1/4" x 1-3/4" x 1-1/4"	Gold Control/SDP4040D	CE	.2	$16.95	$14.95
				NEW Solid State Relay DC loads only							
18297-RL	P	24VAC/DC	DPDT	5A @ 250V	SKT	4-1/4" x 3-3/4" x 4-1/2"	Kuhnke/152-2-01-30	-----	.17	$9.95	----
				Adjustable "Delay on Make" relay. Range: ~.5-30 seconds. Starts timing on closure of remote switch. Timeout continues as long as external contact remains closed. At timeout; internal relay is energized until remote switch opens. Red LED shows status of remote switch, Green LED shows status of internal relay							
18500-IN	T			Silicone/Fiberglass Thermal pad for Solid State Relay.2-1/4" x 1-11/16" x .012"					.001	$0.49	Call
				Temp: -50 to +180 C. Thermal Conductivity: .9 W/m-k Performance: 6°C/W Dielectric Breakdown: 4500VAC							

PC=PC MOUNT / SDR=SOLDER / SCW=SCREW / SKT=SOCKET / QC1=.25" QUICK CONN / QC2=.187" QUICK CONN / DIP=DIP / UL=UL/CSA

A

SOLID STATE INTERFACE MODULE

STOCK #	FIG.	IN/OUT	FUNCTION	RATINGS	CONN.	DIM. LWH	MFG. PART #	LISTED	WT.	1EA	12+EA
14419-RL	A	35-60VAC/DC	SPST	6mA Max @ 60V in, 4KV isolation	PC	1-11/16" x 9/16" x 1"	GRAYHILI/PN 70-IDC5G	UL	.1	$3.95	$3.55
		SS Input Module		Interface between Ext. Loads and Microprocessor. 3-6V Output (5VDC Nomimal) @ 10mA							

DB-25 DATA CABLES

Gold Plated Contacts, All Lines Wired Through.

STOCK #	DESCRIPTION	WT.	1EA	5+EA
2887-CB	6' DB-25 Male/Male	.5	$3.95	----
7716-CB	6' DB-25 Male/Female	.5	$3.95	$3.49
11451-CB	10' DB-25 Male/Female	.7	$4.95	$3.95
11452-CB	15' DB-25 Male/Male	.9	$5.95	$5.45
11453-CB	15' DB-25 Male/Female	.9	$5.95	$5.45
11454-CB	25' DB-25 M/M Cable	1.4	$9.95	$8.95
11455-CB	25' DB-25 M/F Cable	1.4	$9.95	$8.95
11456-CB	50' DB-25 M/M Cable	2.8	$16.95	$14.95
11457-CB	50' DB-25 M/F Cable	2.8	$16.95	$14.95
11459-CB	100' DB-25 M/F Cable	5.5	$32.95	$29.95

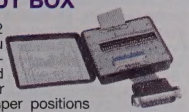
DB-25 M TO HALF PITCH CENTRONICS

IEEE 1284 compliant, 10ft. parallel printer cable. For use with Standard, ECP & EPP printer ports. Cable has a DB-25 male on one end and a 36pin Half Pitch Centronics male on the other. Platnium jacket with with foil & braided shielding. Molded strain relief on connectors.

L: 10ft **WT:** .8

STOCK #	DESC.	1EA
16238-CB	10ft. IEEE Printer Cable	$0.99

RS232 BREAK-OUT BOX

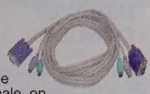


Used to test & rewire RS232 interfaces. Unit gives you control of interface. 10 Bi-Polar LEDs monitor all std signals + 2 spare LEDs for your use. Switches & jumper positions allow reconfiguration of the 24 active lines. 8" flat ribbon cable to DB-25 Male connector, panel mounted DB-25 Female connector. 20 jumper wires included.

L: 3-1/2" **H:** 3-1/4" **T:** 1" **WT:** .3

STOCK #	DESC.	1EA	5+EA
7865-MI	Breakout Box	$23.95	$22.55

KVM CABLE



6ft KVM (Ketboard/Video/Mouse) cable with 10" breakout on each end. Color coded 2 PS-2 Males on bothends with DB-15HD male on one end and DB-15HD female on other. Connect multiple computers to KVM switch.

L: 6ft **WT:** 5

STOCK #	DESC.	1EA	5+EA
14258-CB	6ft KVM Cable	$9.95	$7.95

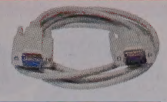
6FT. MONITOR CABLE

Hi-Density DB-15 connectors. Gold plated pins. Platinum jacket, Dark Blue molded connectors Ferrite filters on both ends.

L: 6ft. **WT:** .47

STOCK #	DESC.	1EA
18095-CB	DB-15HD M/M Cable	$2.49

DB-9 EXTENSION CABLES



DB-9 connectors. Gold Plated Pins

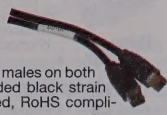
STOCK #	DESCRIPTION	WT.	1EA	5+EA
8641-CB	6' DB-9 Male/Male	.22	$2.95	$2.49
8642-CB	6' DB-9 Male/Female	.22	$2.95	$2.75
8643-CB	10' DB-9 Male/Male	.4	$3.49	$2.95
8644-CB	10' DB-9 Male/Female	.4	$3.49	$2.95

MONITOR CABLES

Hi density DB-15 connectors. Gold Plated Pins

STOCK #	DESCRIPTION	WT.	1EA	5+EA
8647-CB	6' Monitor Cbl. M/F	.2	$3.95	$3.49
12259-CB	10' Monitor Cbl. M/M	.5	$4.95	$4.49
8649-CB	10' Monitor Cbl.M/F	.2	$4.95	$4.49
18513-CB	25' Monitor Cbl.M/M	.2	$19.95	$16.95

6 FT FIREWIRE CABLE



IEEE 1394 Firewire cable with males on both ends. Black jacket with molded black strain relief on connectors. UL listed, RoHS compliant.

L: 6ft. **WT:** .2

STOCK #	DESC.	1EA
17262-CB	6ft. Black Firewire Cable	$2.95

RS232 CABLE

10ft serial cable with a DB9-Fe male on one end and a DB25 male on the other. Molded strain reliefs.

L: 10' **WT:** .5

STOCK #	DESC.	1EA	10+EA
12919-CB	10ft. RS232 Cable	$2.95	$2.49

6FT. DB-9 CABLE

DB-9 cable with Gray jacket and Female DB-9 molded connectors on both ends. All lines wired through.

L: 6ft **WT:** .5

STOCK #	DESC.	1EA
17985-CB	6ft. DB-9F/F Cable	$4.95

NULL MODEM CABLE

DB-9 connectors. Gold plated pins. Wired as follows:

Pin 1	Pin1	Pin 6	Not used
Pin 2	Pin 5 & 9	Pin 7	Pin 8
Pin 3	Pin 4	Pin 8	Pin 7
Pin 4	Pin 3	Pin 9	Pin 2 & 5
Pin 5	Pin 2 & 9		

L: 10ft. **WT:** .4

STOCK #	DESC.	1EA	5+ EA
14414-CB	F/F NULL Modem Cable	$3.25	$2.95

THIN GENDER CHANGERS

Gold plated pins.
Description is gender changer configuration.

WT: .1

STOCK #	FIG.	DESCRIPTION	1EA	5+EA
7006-PL	A	DB-9 Male/Male	$1.95	$1.65
7007-PL	A	DB-9 Female/Female	$1.95	$1.65
11216-PL	B	DB-15 Male/Male	$2.95	$2.39
11217-PL	B	DB-15 Female/Female	$2.95	$2.39
8036-PL	C	DB-15 Hi Den. M/M	$3.95	$2.49
8037-PL	C	DB-15 Hi Den. F/F	$3.95	$2.49
7008-PL	D	DB-25 Male/Male	$1.95	$1.65
7009-PL	D	DB-25 Female/Female	$1.95	$1.65

SERIAL PORT ADAPTERS

DB-9 to DB-25 serial Port Adapter. Connections shown below

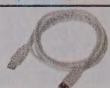
DB-9 to DB-25		DB-9 to DB-25	
3	2	6	6
8	5	4	20
1	8	7	4
2	3	5	7

DB-9 to DB-25
9 22

WT: .1

STOCK #	DESC.	1EA	10+EA
4724-PL	DB9 Male/DB25 Female	$1.95	$1.59
8042-PL	DB9 Female/DB25 Male	$1.95	$1.59

USB CABLES



USB inter-connect cables

STOCK #	DESCRIPTION	WT.	1EA	5+EA
11160-CB	6ft. USB A/A M/M	.15	$2.95	$2.59
12389-CB	6ft. USB A to A M/F	.15	$2.95	$2.59
11161-CB	6 ft. USB A to B M/M	.16	$2.95	$2.59
12390-CB	10ft. USB A to B M/M	.22	$3.95	$3.59

2 FT USB CABLE

USB 1.1 extension cable with a TYPE A male on one end and a Type A Female on the other. Charcoal jacket with molded strain

L: 2ft. **WT:** .08

STOCK #	DESC.	1+EA
18481-CB	2ft.USB Cable	$1.29

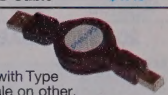
GOLD USB CABLE

Type A male to Type B Male USB cable. White jacket, molded strain reliefs and Gold plated connectors.

L: 6ft **WT:** .2

STOCK #	DESC.	1EA
15743-CB	6ft. USB A/B Cable	$1.49

RETRACTABLE USB CABLE

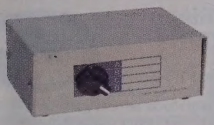


USB 2.0 retractable 1m cable with Type A Male on 1 end & Type B Male on other.

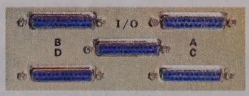
L: 1m Ext/11cm retracted **WT:** .08

STOCK #	DESC.	1EA	12EA
18532-CB	Retractable USB Cable	$2.95	$2.75

DATA SWITCHES



Data switches with gold contact switch, Metal case, and non-slip feet. All lines wired through. Available as listed below in most standard configurations such as High Density & Standard DB-15, Phone jacks, 5 Pin DIN, Mini 8 pin DIN, BNC and Centronics (Printer).



W: 7" **D:** 5-1/2" **H:** 2-1/4" **WT:** 3

STOCK #	CONN	COM. CONN.	I/O CONN.	DESCRIPTION	1EA	5+EA
18604-SW	DB-25	DB-25 Female	4X DB-25 Female	4 way Data Switch with DB-25 Connectors	$18.95	$17.95
4703-SW	DB15	DB-15 Female	4X DB-15 Females	4 Way Data Switch with Std. DB-15 Connectors	$15.95	$12.95
4702-SW	DB15HD	DB-15HD Female	4X DB-15HD Females	4 Way Data Switch with DB-15 Hi Density Conn.	$14.95	$12.95
4705-SW	Mini 8 Pin DIN	Mini 8P DIN Female	4X Mini 8 DIN Females	4 Way Data Switch with Mini 8 Pin Din	$18.95	$17.95

MOBILE COM. PACK

Universal cable adapter kit allows you make up many communication cables. Set has a retractable 32in. USB cable with Type A Male on 1 end & Type A Female on other.
Includes the following Adapters:
USB A-F to RJ45 USB A-M to USB Mini B
USB A-M to RJ45 USB A-M to USB B-M
USB A-F to RJ11 USB A-M to USB Mini 4
USB A-M to RJ11 USB A-M to USB Mini 5
All stored in folding case.
NOTE: Some combinations can damage Computer or external systems. Varify Compatability
WT: .4

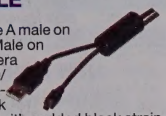
STOCK #	DESC.	1EA
18471-PL	Mobile Comm. Adapters	$9.95

6 FT USB CABLE

6ft. USB cable with a TYPE A male on one end and a Type B Male on the other. Platnium jacket with molded black strain relief on Type A on connector.
L: 6ft. **WT:** .2

STOCK #	DESC.	1+EA
16144-CB	6ft.USB Cable	$1.25

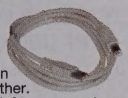
USB CAMERA CABLE



KODAK, USB cable with a Type A male on one end and a 4 Pin Mitsumi Male on the other. For C-300, Camera Dock 6000, Dock II, Dock 420/ 443,Various CX, DX, LX cameras, Printer Dock, Dock 4000,6000, Plus. Black jacket with molded black strain relief on connectors. Ferrite filter on Mini Mitsumi end
L: 4.5ft. **WT:** .13

STOCK #	DESC.	1EA
17505-CB	4.5ft. Black USB Mitsumi Cable	$0.99

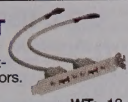
5 FT USB CABLE



3COM P/N 10043601
FOXCONN P/N CUDA005C-K14
USB 1.1 cable with a Type A male on one end and a Type B Male on the other. White jacket with molded strain relief on connectors.
L: 5ft. **WT:** .2

STOCK #	DESC.	1EA
17973-CB	5ft. White USB Cable	$0.59

USB CHASSIS BRACKET



Computer chassis bracket Port Adapters with 2 Type "A" Female connectors. 6" cables to header sockets.
WT: .13

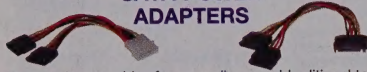
STOCK #	DESC.	1EA	5+EA
11162-CB	Dual 1X4 Header	$3.95	$3.59

20" SATA CABLE

MFG: FOXCONN
P/N: C95764
SATA Male/Male data cable for internal drive connection. Both ends have Latches.
L: 20" **WT:** .035

STOCK #	DESC.	1+EA
18201-CB	20" SATA Cable	$2.95

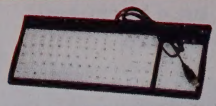
SATA POWER ADAPTERS



Power adapter cables for upgrading or add aditional to SATA Hard Drives.
18075 Converts from conventional 4 Pin IDE connector to 2 SATA Power jacks
18076 Splitts 1 SATA into 2 SATA Jacks
L: 6" **WT:** .05

STOCK #	DESC.	1EA
18075-CB	IDE to SATA Power Cable	$5.95
18076-CB	SATA Splitter Power Cable	$4.95

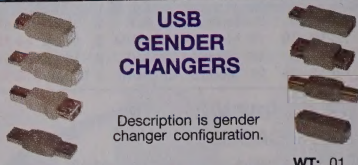
BACKLIT MULTIMEDIA KEYBOARD



Black 105 key, Plus 18 Multimedia/Internet buttons (Pause/Run/FF/RW/Stop/Vol/Home/Email/Search/Refresh Etc.), 4ft. cable with USB Type A male connector. Blue EL Backlight. Keys for power management "WAKE UP", "SLEEP" & "BACKLIGHT POWER". Black base, White keys with black letters, tactile feedback, LED's for Number, Caps, & Scroll Lock. 98/ME/2K/NT/XP compatable. FCC/CE approved.
W: 15-1/2" **D:** 64" **H:**1-1/2" **WT:** 1.6

STOCK #	DESC.	1EA
18409-KB	USB Multimedia Keyboard	$19.95

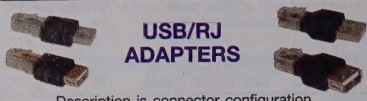
USB GENDER CHANGERS



Description is gender changer configuration.
WT: .01

STOCK #	DESC.	1EA	5+EA
12452-CB	A Female/B Female	$3.75	$3.25
12453-CB	A Male/B Female	$3.50	$2.95
12454-CB	A Female/ B Male	$3.50	$2.95
15476-PL	A Male/A Male	$3.50	$2.95
15477-PL	A Male/A Female	$3.50	$2.95
15478-PL	A Female/A Female	$3.50	$2.95
15479-PL	B Male/B Male	$3.50	$2.95
15480-PL	B Female/B Female	$3.50	$2.95

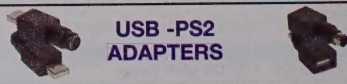
USB/RJ ADAPTERS



Description is connector configuration.
L: 2-1/4" **WT:** .04

STOCK #	DESC.	1EA	5+EA
15485-PL	A Male/RJ-45 Male	$2.95	$2.50
15486-PL	A Female/RJ-45 Male	$2.95	$2.50

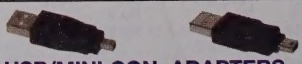
USB -PS2 ADAPTERS



Computer keyboard Adapters, 2 Type available:
6 Pin Mini DIN Female to USB Type A Male
6 Pin Mini DIN Male to USB Type A Female
L: 2-1/4" **WT:** .04

STOCK #	DESC.	1EA	10+EA
14256-PL	PS2-F to USB-A-Male	$1.95	$1.59
14257-PL	PS2-M to USB-A-Female	$1.95	$1.59

USB/MINI CON. ADAPTERS



Description is connector configuration.
L: 2-1/4" **WT:** .04

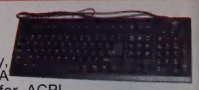
STOCK #	DESC.	1EA	5+EA
15483-PL	A Male/Mini 4 (Mitsumi)	$3.95	$3.50
15484-PL	A Male/Mini B 5 pin	$3.95	$3.50

USB 4 PORT INTERNAL HUB

Hub supports full speed (12Mbps) and low speed (1.5Mbps) devices. Features 1 upstream type "B" female port and 4 downstream type"A" female ports. Includes 1ft upstream cable (A male/B male), 6in long power cable (connects into HDD/ CD/Floppy Power).
WT: .5

STOCK #	DESC.	1EA	5+EA
12484-CP	USB 4 Port Hub	$29.95	$26.95

USB 107-KEY KEYBOARDS



Black OR Beige 107 key, 4ft. cable with USB Type A male connector. Keys for ACPI power management "WAKE UP", "SLEEP" & "POWER". Black base & keys with white letters OR Beige base & keys with Black letters, tactile feedback, LED's for Number, Caps, & Scroll Lock. 98/ME/2K/NT/XP compatable. FCC/CE approved.
W: 17-3/4" **D:** 6-1/4" **H:**1" **WT:** 2.1

STOCK #	DESC.	1EA	5+EA
15903-KB	USB Black Keyboard	$8.95	$7.95
15930-KB	USB Beige Keyboard	$8.95	$7.95

MINI PS-2 KEYBOARDS

Mini footprint 88 key keyboard. With Windows 95™ enhanced keys 6ft. cord with 6 pin Mini DIN connector. Two colors to choose from. UL/CSA/CE Listed
L: 11-3/8" **W:** 5-5/8" **H:** 1" **WT:** 1.5

STOCK #	DESC.	1EA	5+EA
12443-KB	Ivory Mini Keyboard	$29.95	$28.95
12444-KB	Black Mini Keyboard	$29.95	$28.95

FLEX BACKLIT KEYBOARD

Water resistant, EL backlit, blue silcone rubber, 107 key USB full sized Keyboard, 4ft. cable with USB Type A male connector. Switch to control Backlight. Keys for "WAKE UP", "SLEEP" & "POWER" with LED's for Number, Scroll and Caps lock. Rubber base & keys with white letters. Tactile feedback. 98/ME/2K/NT/XP/VISTA compatable. FCC/CE approved. Includes USB to PS-2 Adapter/
W: 19-1/4" **H:** 5-3/8" **T:** 1/2" **WT:** .74

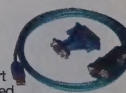
STOCK #	DESC.	1EA
18410-KB	USB Flex Keyboard/Backlite	$19.95

USB/WIFI DONGLE

ZyDAS WLAN wireless net dongle with on board antenna. No case/cover
Standards: IEEE802.11b 11Mbps 802.11g 54Mbps
USB: 2.0
Supports: WPA, 64/128 WEP security,
Access point & ad-hoc network.
System: Windows 98SE-XP Pro. (Not tried with Vista)
MAC: OS-X
Pentium 233 UP, 64Mb RAM/100Mb of disc
USB Port.
Transmit: 17dBm
Receive (@11Mbps): -80dBm@ 8% FER.
Range: 50-200m depending on conditions/building
Driver NOT provided. Available on-line.
L: 2-7/8" O/A **W:** 7/8" **T:** 1/4" **WT:** .018

STOCK #	DESC.	1EA
18569-CP	WiFi-USB LAN Dongle	$5.95

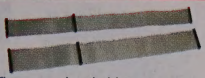
USB TO SERIAL CONVERTER



Allows you to free up your RS-232 Port or add Port to Laptop. No IRQ required.
Supports auto handshake mode, remote wake-up & power management. Works with ISDN terminal adapters, modems
Driver files provided on disk, latest drivers available Via Internet from Mfg. website. No external power required. Type "B" Female input, DB-25Male output, includes 6ft cable with USB Type A male on one end & Type "B" male on other.
WT: .5

STOCK #	DESC.	1EA	5+EA
14246-CP	USB RS-232 Link	$24.95	$22.95

DISC DRIVE CABLES

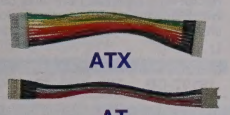


Cables to inter-connect floppy or hard drives to your system controllers.
7368-CB for 5-1/2 or 3-1/2 A/B floppys: 34 Pin header to two 34 Pin edge connectors & 34Pin headers.
7369 & 7981-CB For IDE drives: 40 Pin Header to one/two 40 Pin Headers
7982 & 7983-CB For SCSI drives: 50Pin header to one/two 50 Pin headers

WT: .17

STOCK #	DESC.	1EA	5+EA
7368-CB	28" Dual Floppy Cable	$2.95	$1.95
7369-CB	24" IDE Dual Hard Drive	$2.95	$1.95
7981-CB	18" IDE SingleHard Drive	$1.95	$1.59
7982-CB	18" SCSI Single Hard Drive	$2.95	$1.95
7983-CB	24" SCSI Dual Hard Drive	$2.95	$1.95

AT/ATX POWER CABLE EXTENSION



Motherboard power extension cable. Connects between your power supply connectors & the mother board. AT: 12 conductor
ATX: 20Conductor (ATX-V1.3)

L: 8" (AT) 6" (ATX) **WT:** .15

STOCK #	DESC.	1EA	5+EA
11219-CB	AT Extension Cable	$3.95	$2.95
15430-CB	ATX Extension Cable	$3.95	$2.95

DISC DRIVE POWER CABLES

Adapt large 4 Pin molex power connectors to mini 4 pin connectors. "Y"s for connecting two drives from one connector.

WT: .044

STOCK #	DESC.	1EA	5+EA
7206-CB	Large to Mini	$1.95	$1.75
7207-CB	Large "Y"	$1.95	$1.75
7208-CB	Large to 2 Mini (Y)	$1.95	$1.75
11218-CB	Large to Mini & Large	$1.95	$1.75

18IN. FIBER OPTIC AUDIO CABLE

18" optical cable with 3.5mm optical mini plugs on both ends. For digital interconnects between properly equipped Amps, Tuners, CD's etc. Max loss: 2db/m @ 600nM wavelength. Min bending radius: 22mm (1in).

L: 18in. **WT:** .035

STOCK #	DESC.	1EA
15257-FO	18in. Optical Cable	$0.99

THOUSANDS more Items on www.mpja.com

PREMIUM RGB CABLE

Monster Cable 800 series, THX Certified, Premium Component Video (RGB) cable. 3 color coded video cables. 95%Copper braid & 100% aluminum foil double shielding. 24kt gold plated Red, Blue & Green coded RCA Plugs.

L: 1m **WT:** .85

STOCK #	DESC.	1EA
18473-CB	Monster RGB Cable	$8.95

A/V CABLES

Premium Stereo audio & composite video cable with Oxygen free copper wire. Left & Right Stereo cables & video coax. Copper braid & aluminum foil double shielding, stranded center conductor. Molded strain relief 24kt gold plated Red, White & Yellow coded RCA Plugs.

STOCK #	DESCRIPTION	WT.	1EA
17188-CB	9ft. H/D A/V Cable	1.2	$7.95
17189-CB	13ft. H/D A/V Cable	1.4	$9.95

FIBER OPTIC DUBBING CABLES

Siamese dubbing cable with fiber optic cable with TOSLINK connectors for audio and coax cable with Gold plated RCA Plugs for video.

L: 6/12ft **WT:** .4/.62

STOCK #	DESC.	1EA	10+EA
15504-CB	12' F/Optic Dubbing Cable	$8.95	$7.95
16740-CB	6' F/Optic Dubbing Cable	$2.95	----

3FT. FIBER OPTIC AUDIO CABLE

3 ft. optical cable with **TOSLINK** connectors, includes adapters for 3.5mm optical mini plugs. For digital interconnects between properly equipped Amps, Tuners, CD's etc. Max loss: .2db/m . Min bending radius: 30mm (1.2in).

L: 3ft **WT:** .12

STOCK #	DESC.	1EA
15471-CB	Fiber Optic Audio Cable	$1.95

6FT. FIBER OPTIC AUDIO CABLE

6 ft. optical cable with **3.5mm** optical mini plugs on both ends. For digital interconnects between properly equipped Amps, Tuners, CD's etc. Max loss: 2db/m @ 600nM wavelength. Min bending radius: 22mm (1in).

L: 6ft **WT:** .14

STOCK #	DESC.	1EA
14493-CB	3.5mm Optical Cable	$1.49

6FT. FIBER OPTIC CABLE

6ft. TOSLINK to 1/8" Optical Phone Plug cable. For digital interconnects between properly equipped Amps, Tuners, CD's etc. Max loss: .2db/m. Min bending radius: 30mm

L: 6ft **WT:** .09

STOCK #	DESC.	1EA	10+EA
15533-FO	Fiber Optic Audio Cable		$1.99

OPTICAL SWITCH

3 way bi-directional optical switch with 3.5mm optical in/outputs. Select from 3 different audio sources, or receivers. Includes TOSLINK to 3.5mm optical adapters.

WT: .23

STOCK #	DESC.	1EA
15189-FO	Fiber Optic Switch	$4.99

PREMIUM A/V CABLES

Premium Stereo audio & composite video cable made with Oxygen free copper wire. Left & Right Stereo cables & video coax. Copper braid & aluminum foil double shielding. 24kt gold plated Red, White & Yellow coded

STOCK #	DESCRIPTION	WT.	1EA	5+EA
16885-CB	6ft. Prem. A/V Cable	.6	$29.95	$27.95
16886-CB	12ft. Prem. A/V Cable	1.1	$36.95	$33.95
16887-CB	25ft. Prem. A/V Cable	2.2	$54.95	$49.95

HEAVY DUTY A/V CABLES

Heavy duty stereo audio & composite video cable with Oxygen free copper wire. Left & Right Stereo cables & video coax. Copper braid & aluminum foil double shielding. Molded strain relief 24kt gold plated Red, White & Yellow coded RCA Plugs.

STOCK #	DESCRIPTION	WT.	1EA	5+EA
16891-CB	6ft. H/D A/V Cable	.6	$15.95	$12.95
16892-CB	12ft. H/D A/V Cable	1.1	$24.95	$21.95
16893-CB	25ft. H/D A/V Cable	2.1	$45.95	$41.95

STANDARD A/V CABLES

Stereo audio & composite video cable. Left & Right Stereo cables & video coax. Copper braid. Molded strain relief 24kt gold plated Red, White & Yellow coded RCA Plugs.

STOCK #	DESCRIPTION	WT.	1EA	5+EA
16896-CB	3ft. Std. A/V Cable	.2	$4.95	$4.49
16897-CB	6ft. Std. A/V Cable	.3	$5.95	$5.49
16898-CB	12ft. Std. A/V Cable	.6	$6.95	$6.49

A/V PATCH CABLES WITH RCA PLUGS

Single & Dual cables for audio/video equipment patching

STOCK #	DESCRIPTION	WT.	1EA	10+EA
4906-TV	6ft. Single Cable	.11	$1.25	$0.99
4907-TV	12ft. Single Cable	.18	$1.95	$1.75
4903-TV	3ft. Dual Cable	.33	$1.49	$1.35
4904-TV	6ft. Dual Cable	.48	$1.75	$1.49
4905-TV	12ft. Dual Cable	.52	$2.49	$2.25

1/8" PHONE STEREO CABLES

Single cable with 3.5mm (1/8") stereo cables. For audio or video equipment patching. Black cable with molded connectors. M = Male, F = Female.

WT: .12

STOCK #	DESC.	1EA	10+EA
11291-CB	12ft. 3.5mm M/F Cable	$1.69	$1.49
11292-CB	12ft. 3.5mm M/M Cable	$1.69	$1.49
11293-CB	6ft. 3.5mm M/M Cable	$1.65	$1.49

PREMIUM RGB CABLES

Premium Component Video (RGB) cable. 3 color coded video cables with OFC conductors, 93%Copper braid & 100% aluminum foil double shielding. 24kt gold plated Red, Blue & Green coded RCA Plugs with metal shells.

STOCK #	DESCRIPTION	WT.	1EA	5+EA
16901-CB	3ft. Prem. RGB Cable	1	$24.95	$23.95
16902-CB	6ft. Prem. RGB Cable	2	$34.95	$32.95
16903-CB	12ft. Prem. RGB Cable	3	$37.95	$36.95
16904-CB	25ft. Prem RGB Cable	5	$49.95	$47.95

DELUXE RGB CABLES

Heavy duty Component Video (RGB) cable. 3 color coded video cables with OFC conductors, 69%Copper braid & 100% aluminum foil double shielding. Molded strain relief, 24kt gold plated Red, Blue & Green coded RCA Plugs

STOCK #	DESCRIPTION	WT.	1EA	5+EA
16907-CB	6ft. H/D RGB Cable	2	$34.95	$32.95
16908-CB	12ft. H/D RGB Cable	3	$37.95	$36.95
16909-CB	25ft. H/D RGB Cable	5	$49.95	$47.95

DELUXE RGB/STEREO CABLES

Heavy duty Component Video (RGB) & Stereo cable. 3 color coded video and 2 Audio cables with OFC conductors, 86% Video/69% Audio Copper braid & 100% aluminum foil double shielding. Molded strain relief, 24kt gold plated Red, White, Blue & Green coded RCA Plugs

STOCK #	DESCRIPTION	WT.	1EA	5+EA
16912-CB	12ft. RGB/Stereo Cable	5	$29.95	$27.95
16913-CB	25ft. RGB /StereoCable	6	$39.95	$37.95

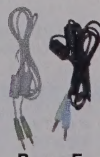
STEREO AUDIO CABLES

Stereo cable with color coded RCA Right angle males on one end and straight males on the other. All connectors are Gold plated. Each cable is individually shielded. Ideal interconnect cable for car audio systems.

L: 3ft. **WT:** .3

STOCK #	DESC.	1EA	25+EA
15788-CB	3ft Gold Stereo Cable	$1.95	$1.75

1/8" PHONE AUDIO CABLES



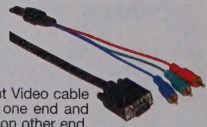
Audio patch cables with 1/8" stereo phone plug connectors on both ends. Molded strain reliefs.
B: 5ft. Platinum jacket/Green Connectors/RFI Filter on ends
E: 6ft.Black jacket Blue & Green Connectors/RFI Filter on ends

B E

WT: .13

STOCK #	DESC.	1EA	10+EA
15562-CB	(B) Platinum Jacket/Filters	$1.29	$1.09
15666-CB	(E) Black Jacket/Filters	$1.29	$1.09

VGA TO RGB CABLE



VGA to RGB Component Video cable with DB-15HD male on one end and color coded RCA Plugs on other end.

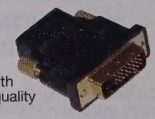
STOCK #	DESC.	WT.	1+EA
17224-CB	6ft VGA to RGB Cable	.3	$8.95
17225-CB	12ft VGA to RGB Cable	.6	$12.95

HDMI CABLES

HDMI (High Definition Multimedia Interface) cable with gold plated male connectors on both ends. Top quality signal for all Hi-Def. TV, Set Top cable boxes, recorder/players etc. Supports standard, enhanced, & High Definition video plus standard & surround sound.

STOCK #	DESC.	WT.	1EA
16861-CB	3ft. Hi Def. TV Cable	.8	$16.50
16863-CB	9ft. Hi Def. TV Cable	1.5	$22.50
16864-CB	12ft. Hi Def. TV Cable	2	$26.95
16865-CB	15ft. Hi Def. TV Cable	2.5	$39.95

HDMI/DVI ADAPTERS



HDMI/DVI Cable adapters with gold plated connectors. Top quality for the highest quality viewing.

WT: .1

STOCK #	DESCRIPTION	1EA	5+EA
16870-PL	HDMI-F to DVI-M	$11.95	$9.95
16871-PL	HDMI-M to DVI-F	$11.95	$9.95
16872-PL	HDMI-F to DVI-F	$12.95	$10.95
16873-PL	HDMI-M to DVI-M	$11.95	$9.95

HDMI COUPLERS

HDMI cable Gender changers/Couplersaccessories. Top quality for the highest quality viewing.

L: 12" **WT:** .1

STOCK #	DESCRIPTION	1EA	5+EA
16875-PL	HDMI-F to HDMI-F	$12.95	$11.25
16876-PL	HDMI-M to HDMI-M	$12.45	$10.95
16877-PL	HDMI-F to HDMI-M	$12.45	$10.95

HDMI SPLITTER

HDMI signal splitter. HDMI Male connector with 1ft lead connects to 2 HDMI Females. Gold plated connectors.

L: 12" **WT:** .6

STOCK #	DESCRIPTION	1EA	5+EA
16880-PL	HDMI Signal Splitter	$19.95	$18.95

RG-58 CABLES WITH BNC CONN.

Cable with BNC Male connectors on both ends. Black with molded strain relief.

STOCK #	DESCRIPTION	WT.	1EA	10+EA
8011-CB	10ft 50ohm RG-58	1	$3.95	$3.49
8012-CB	25ft 50ohm RG-58	1	$4.95	$4.49
8013-CB	50ft 50ohm RG-58	1.5	$8.95	$7.49
8014-CB	100ft 50ohm RG-58	5	$15.95	$14.95

RG-59 CABLE WITH BNC CONN.

Convienent lengths of black 75 ohm RG-59 CCTV cables. With strain relieved male BNC connectors on both ends. Use to interconnect Camears, Monitors, Switchers etc.

STOCK #	DESCRIPTION	WT.	1EA	25+EA
8952-CB	3ft. RG-59 Cable	.3	$3.25	$2.95
8953-CB	6ft. RG-59 Cable	.6	$3.85	$3.49
8954-CB	12ft. RG-59 Cable	2	$4.50	$3.95
8955-CB	25ft. RG-59 Cable	3.1	$5.95	$5.49
8956-CB	50ft. RG-59 Cable	4.2	$8.95	$7.95
12386-CB	100ft. RG-59 Cable	8.5	$14.95	$12.95

6FT HDMI CABLE

HDMI (High Definition Multimedia Interface) cable with gold plated male connectors and filters on both ends. Top quality signal for all Hi-Def. TV, Set Top cable boxes, recorder/players etc. Supports standard, enhanced, & High Definition video plus standard & surround sound.

L: 2m (6ft.) **WT:** .5

STOCK #	DESC.	1EA
16921-CB	Hi Def. TV Cable	$14.95

4m DVI CABLE

ULTRALINK Platinum Series, 13 ft. with a DVI-D (24+1, Dual Link-2X Digital cable) male connector on both ends. Dark Gray cable with Black molded connectors. Gold shells & Pins, Quad shielded, silver plated copper conductors,

L: 13ft. **WT:** 1.1

STOCK #	DESC.	1EA
18107-CB	UltraLink 13ft. DVI-D Cable	$6.95

DVI/VGA ADAPTER

MFG: PULSE
DVI-A Male (12+5) to VGA DB-15HD Female molded adapter. Top quality for the highest quality viewing.

L: 1-7/8" **WT:** .075

STOCK #	DESC.	1+EA
18200-PL	DVI-VGA Adapter	$11.95

6FT DVI CABLE

6 ft. with a DVI-D ((18+1, Single Link-Digital cable) male connector on both ends. Black cable with White molded connectors

L: 6ft. **WT:** .44

STOCK #	DESC.	1EA
15468-CB	Black 6ft. DVI-D Cable	$0.99

6FT DVI CABLE

6 ft. with a DVI-D ((18+1, Single Link- Digital cable) male connector on both ends. Platinum cable with white molded connectors

L: 6ft. **WT:** .44

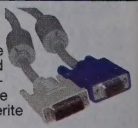
STOCK #	DESC.	1EA
16587-CB	Platinum 6ft. DVI-D Cable	$1.25

UL LISTED COAX CABLES WITH "F" CONNECTORS

UL listed CATV cables. Convienent lengths of black RG-6 cable. With strain relieved male "F" connectors on both ends. Suitable for commercial installations. 64% braid & 100% foil shield.

STOCK #	DESCRIPTION	WT.	1EA	5+EA
5948-TV	15' UL RG-6 Cable	.7	$2.99	$2.49
5949-TV	25' UL RG-6 Cable	1	$4.25	$3.95
5950-TV	50' UL RG-6 Cable	2.2	$7.50	$6.95
5951-TV	75' UL RG-6 Cable	3.1	$12.95	$11.95
5952-TV	100' UL RG-6 Cable	4.2	$13.95	$12.95
5953-TV	150' UL RG-6 Cable	6.2	$19.95	$18.80

DVI-VGA CABLE



6 ft. with a Male DVI-A (16+1, Single Link- Analog) connector on one end and a VGA Male DB-15HD connector on other (no Pin 9). Platinum cable with molded connectors and a ferite suppressor on each end

L: 6ft. **WT:** .6

STOCK #	DESC.	1EA
17950-CB	Platinum 6ft. DVI-A/VGA Cable	$9.95

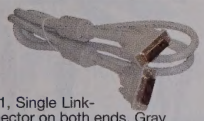
VIDEO COAX TO UTP CONVERTER

Isolated balun converts video signals using coaxial cable to telcom UTP cable (CAT 3-5). Sends color video up to 1000ft or B/W up to 2000ft. Bandwidth 35Hz to 4.5MHz. Transpedance: 75ohm unbalanced to 100 ohm balanced. Use existing phone wiring to send video. Connects to RJ-45 pins 7&8. **1 needed at each end**

L: 2" **W:** 5/8" **H:** 7/8" **WT:** .1

STOCK #	DESC.	1EA	5+EA
12238-ST	BNC-M to RJ-45	$24.95	$19.95
12239-ST	BNC-F to RJ-45	$24.95	$19.95
12240-ST	"F" Female to RJ-45	$24.95	$19.95

6FT DVI CABLE



6 ft. with a DVI-D ((18+1, Single Link-Digital cable) male connector on both ends. Gray cable with Gray molded connectors.

L: 6ft. **WT:** .44

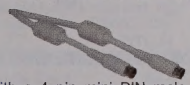
STOCK #	DESC.	1EA
16594-CB	Gray 6ft. DVI-D Cable	$2.95

CAMERA VIDEO/POWER CABLE

Siamese cable for cameras. Cable splits out 8" from ends into a video cable with a BNC male on one end and a RCA male on other and a power cable with a 2.1mm I/D coaxial power Plug on end (same end as video RCA) and a 2.5mm I/D power Jack on other. Includes a BNC Male to RCA Female adapter.

STOCK #	DESC.	WT.	1EA
15460-WI	25ft. Camera Cable	0.6	$6.95
15461-WI	50ft. Camera Cable	1.8	$9.95
15462-WI	100ft. Camera Cable	3.4	$17.95
15463-WI	150ft. Camera Cable	4.9	$20.95

S-VIDEO CABLE



5ft-8in. platinum cable with a 4 pin mini DIN male connectors & ferrite filters on both ends. Quality cable with molded strain relief on connectors.

L: 5ft/8in **WT:** .22

STOCK #	DESC.	1EA
16236-CB	Platinum S-Video Cable	$0.95

S-VIDEO CABLE

5ft.-8in. black S-Video cable with a 4 pin mini DIN male connectors & ferrite filters on both ends. Quality cable with molded strain relief on connectors.

L: 5ft/8in **WT:** .22

STOCK #	DESC.	1EA
16303-CB	Black S-Video Cable	$2.95

S-VIDEO CABLE

6ft. cable with a Gold 4 pin mini DIN male on both ends. Ideal patch cord from DVD/Sat. receiver to your TV. Quality cable with molded strain relief on connectors.

L: 6ft. **WT:** .12

STOCK #	DESC.	1EA	5+EA
11052-CB	6ft S-VHS Cable	$3.50	$2.95

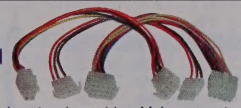
CB/RADIO EXTENSION CABLES

10in. long, Small,flat pin extension cables. Male connector on one end, mating Female on other. Color coded wires.
.110" flat quick connect type Pins in plastic housing.

L: 10"

STOCK #	DESC.	WT.	1EA
17854-CB	2 Pin Extension Cable	.02	$1.29
17856-CB	3 Pin Extension Cable	.03	$1.95
17858-CB	4 Pin Extension Cable	.05	$1.95
17859-CB	6 Pin Extension Cable	.07	$2.95
17860-CB	9 Pin Extension Cable	.09	$4.59

CB/RADIO EXTENSION CABLES



10in. long, Round pin extension cables. Male connector with .084"O/D round on one end, mating Female on other. Color coded wires. Plastic housing.

L: 10"

STOCK #	DESC.	WT.	1EA
17861-CB	3 Pin Extension Cable	.033	$2.95
17862-CB	6 Pin Extension Cable	.066	$4.59
17863-CB	9 Pin Extension Cable	.10	$6.95
17864-CB	12 Pin Extension Cable	.11	$9.95
17865-CB	15 Pin Extension Cable	.13	$12.95

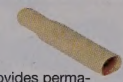
CB/RADIO EXTENSION CABLE

10in. long, extension cables with .250" Quick connect type terminals. Male connector on one end, mating Female on other. Color coded wires. Plastic housing.

L: 10" **WT:** .03/.06

STOCK #	DESC.	1EA
17857-CB	3 Pin Extension/Faston	$1.95

"B" SPLICES



Standard type "B" crimp splices. Provides permanent connection for phone or alarm wires.

WT:.001

STOCK #	DESC.	1EA	25EA	100+EA
5873-TT	"B" Splice	$0.15	$0.10	$0.09

EURO TERMINAL BLOCK

12 position, double entry, Euro style terminal blocks. 10mm terminal Spacing & mounting holes.
Voltage: 300V/Rated Current: 30A
Wire: 12-22AWGSolid/Stranded 10AWG Solid
Recessed screws in top. UL/VDE/CE Listed. RoHS compliant

L: 4-5/8" **H:** 11/16" **W:** 13/16" **WT:** .08

STOCK #	DESC.	1EA
18538-TS	12 Pos. Euro Strip	$2.95

4 COND. MINI COIL CORD

High quality, super flexable, medical grade white coil cord designed for use as medical sensor leads. 12in. collapsed, 80in. extended. 4 color coded # 26 AWG stranded, copper conductors. Ideal for control systems, robots, alarms

L: 12" **WT:** .06

STOCK #	DESC.	1EA	10+EA
17574-CB	Mini Coil Cord	$1.25	$0.99

MAGNET WIRE

1/2 lb. Spools of quality Magnet wire. Designed for coils and transformers. Footage shown is approxmate and may vary slightly

WT: .6

STOCK #	AWG	LEN.	DESCRIPTION	1EA	10+EA
8966-WI	30	1600	Mag Wire	$19.95	$18.95
7253-WI	24	400	Mag Wire	$14.95	$13.95
7254-WI	22	250	Mag Wire	$14.95	$13.95
7258-WI	14	40	Mag Wire	$12.95	$11.95

RIBBON CABLE

100ft rolls of multiconductor flat ribbon cable. .050" conductor spacing to match up to IDC connectors. Stranded, 28 awg, 105deg "C" 300 volt insulation. Gray PVC insulation with tracer on one edge. For SCSI, disc drive and other cables.

L: 100ft.

STOCK #	DESC.	WT.	1EA	5+EA
8566-WI	9 Conductor Flat	1.5	$16.95	$12.95
8568-WI	20 Conductor Flat	2.7	$28.95	$25.83
8569-WI	25 Conductor Flat	3.4	$33.95	$29.95
8570-WI	34 Conductor Flat	5	$45.95	$43.95
8571-WI	40 Conductor Flat	6	$57.95	$56.95
8572-WI	50 Conductor Flat	7	$69.95	$64.95

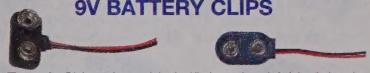
QUICK CONNECT SPEAKER TERMINAL

2 or 4 position red & black terminal strip for speakers, audio equipment etc. Solder tabs on back.

WT: .03

STOCK #	DESC.	1EA	10+EA
4298-TS	2 Pos. Quick Connect	$0.50	$0.39
4297-TS	4 Pos. Quick Connect	$0.79	$0.59

9V BATTERY CLIPS



Type A: Side exit, molded, 4" tinned red & black leads
Type B: End exit, vinyl cover, 6" tinned red & black leads

WT: .004

STOCK #	DESC.	1EA	25+EA
6392-BT	Side Exit 9V Clip	$0.25	$0.22
2600-BT	End Exit 9V Clip	$0.19	$0.17

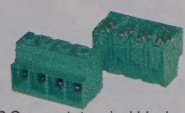
TERMINAL STRIPS

2 or 3 position, end stackable, P.C. mount, terminal strips. Voltage: 300V/Rated Current: 15A
Pin Spacing: 5mmC/C. Wire: 14-22AWG

L: 10/15mm **H:** 10mm **T:** 7.6mm **WT:** .04

STOCK #	DESC.	1EA	10+EA
18318-TS	2 Pos. Terminal Strip	$0.39	$0.29
18319-TS	3 Pos. Terminal Strip	$0.49	$0.39

HIGH POWER TERMINAL BLOCK



4 position, end stackable, P.C. mount, terminal blocks.
Voltage: 1000V/Rated Current: 90A
Wire: 2-20AWG,35mm^2
Recessed screws in top. RoHS compliant

L: 60mm **H:** 39mm **W:** 31mm **WT:** .18

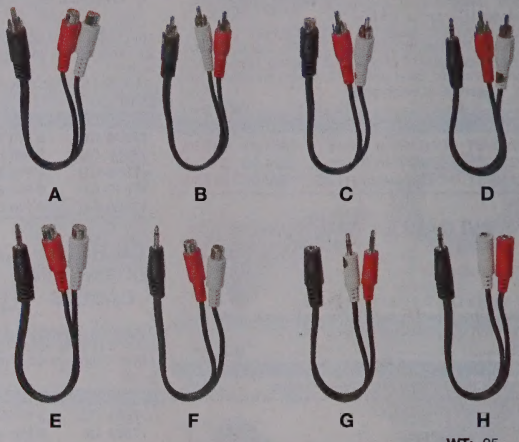
STOCK #	DESC.	1EA
18522-TS	4 Pos. Hi-Power Strip	$1.25

AUDIO ADAPTORS

WT: .01

STOCK #	FIG.	DESCRIPTION	1EA	10+EA
11295-AD	A	RCA Jack to RCA Jack	$0.45	$0.36
11296-AD	B	RCA Plug to RCA Plug	$0.49	$0.39
11297-AD	C	3.5mm Stereo Jack to 3.5mm Stereo Jack	$1.95	$1.59
11298-AD	D	3.5mm Mono Jack to 2.5mm Mono Plug	$0.95	$0.79
11299-AD	E	RCA Jack to 3.5mm Mono Plug	$0.95	$0.79
11300-AD	F	2X 3.5mm Stereo Jack to 3.5mm Stereo Plug	$1.25	$0.99
11301-AD	G	RCA Jack to 1/4" Mono Plug	$0.75	$0.59
11302-AD	H	1/4" Mono Jack to RCA Plug	$0.95	$0.79
11303-AD	I	3.5mm Mono Jack to RCA Plug	$0.95	$0.79
11304-AD	J	1/4" Mono Jack to 3.5mm Mono Plug	$0.75	$0.59
11305-AD	J	1/4" Stereo Jack to 3.5mm Stereo Plug	$0.95	$0.79
11306-AD	L	3.5mm Mono Jack to 1/4" Mono Plug	$0.75	$0.59
11307-AD	L	3.5mm Stereo Jack to 1/4" Stereo Plug	$0.75	$0.59
11308-AD	M	2X 1/4" Stereo Jack to 3.5mm Stereo Plug	$1.75	$1.39
11309-AD	N	2X 3.5mm Stereo Jack to 1/4" Stereo Plug	$1.50	$1.19
11400-AD	O	3.5mm Mono to 3.5/1.3mm ID Coxial Plug	$1.50	$1.25
11401-AD	P	3.5mm Mono to 6.5/3mm ID Coxial Plug	$1.50	$1.19
15334-PL	Q	Red RCA Plug to Jack Rt. Ang Adapter	$0.79	$0.64
15335-PL	Q	Black RCA Plug to Jack Rt. Ang Adapter	$0.79	$0.64

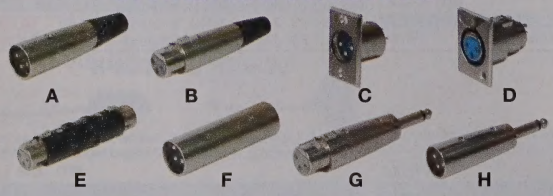
AUDIO ADAPTOR & SPLITTER CABLES



WT: .05

STOCK #	FIG.	DESCRIPTION	1EA	10+EA
11420-AC	A	Black RCA Plug to Red/White RCA Jack (Y)	$0.89	$0.69
11421-AC	B	Black RCA Plug to Red/White RCA Plug (Y)	$0.89	$0.69
11422-AC	C	Black RCA Jack to Red/White RCA Plug (Y)	$0.89	$0.69
11423-AC	D	3.5mm St. Plug to Red/White RCA Plug (Split)	$0.95	$0.79
11424-AC	E	3.5mm St. Plug to Red/White RCA Jack (Split)	$0.95	$0.79
11425-AC	F	3.5mm Mno. Plug to Red/White RCA Jack (Y)	$0.95	$0.79
11426-AC	G	3.5mm St. Jack to Red/White 3.5mm St. Plug (Y)	$0.95	$0.79
11427-AC	H	3.5mm St. Plug to Red/White 3.5mm St. Jack (Y)	$0.95	$0.79

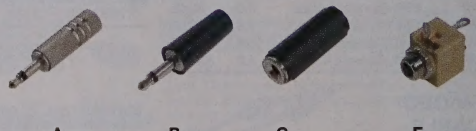
3 PIN XLR MIKE CONNECTORS



WT: .01

STOCK #	FIG.	DESCRIPTION	WT.	1EA	10EA
2983-PL	A	XLR Cable Male Mike Connector	.2	$1.95	$1.59
2971-PL	B	XLR Cable Female Mike Connector	.2	$1.95	$1.59
2972-PL	C	XLR Male Chassis Mike Connector	.2	$2.25	$1.79
3136-PL	D	XLR Female Chassis Mike Connector	.2	$3.95	$2.95
11403-PL	E	XLR Female to Female Inline Conn.	.15	$4.45	$3.59
11404-PL	F	XLR Male to Male Inline Conn.	.13	$4.25	$3.39
11405-PL	G	XLR Female to 1/4" Mono Plug	.1	$4.25	$3.39
11406-PL	H	XLR Male to 1/4" Mono Plug	.1	$3.95	$2.95

1/8" (3.5MM) PHONE PLUGS & JACKS



WT: .004

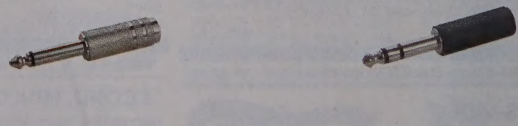
STOCK #	FIG.	DESCRIPTION	1EA	10EA	100+EA
2187-PL	A	Mono Plug Metal Back	$0.52	$0.43	$0.35
1868-PL	B	Mono Plug Plastic Back	$0.15	$0.13	$0.10
5514-PL	A	Stereo Plug Metal Back	$0.64	$0.53	$0.43
4015-PL	B	Stereo Plug Plastic Back	$0.37	$0.31	$0.25
1927-PL	C	Mono Jack Plastic Back	$0.50	$0.46	$0.39
5515-PL	E	Stereo Enc. Panel Jack	$0.38	$0.32	$0.25

RCA CONNECTORS

WT: .004

STOCK #	FIG.	TYPE	DESCRIPTION	1EA	10EA	100+EA
4674-PL	A	Plug	Red Plastic Back	$0.19	$0.16	$0.13
4675-PL	A	Plug	Black Plastic Back	$0.19	$0.16	$0.13
5518-PL	B	Plug	Metal Back	$0.57	$0.47	$0.38
5519-PL	C	Jack	Red Plastic Back	$0.23	$0.19	$0.15
5520-PL	C	Jack	Black Plastic Back	$0.23	$0.19	$0.15
5521-PL	D	Jack	Metal Back	$0.76	$0.63	$0.51
5522-PL	E	Jack	Panel Mount	$0.41	$0.34	$0.27

1/4" PHONE PLUGS



A/C = Normally Closed Auxillary Tip Contact

WT: .02

STOCK #	FIG.	DESCRIPTION	1EA	10EA	100+EA
7236-PL	A	Mono Plug Metal Back	$0.72	$0.60	$0.48
7237-PL	B	Mono Plug Plastic Back	$0.48	$0.40	$0.32
7238-PL	A	Stereo Plug Metal Back	$0.97	$0.81	$0.64
7239-PL	B	Stereo Plug Plastic Back	$0.52	$0.43	$0.35

7FT. RIGHT ANGLE IEC CORDSET

Removed from Equipment, 6ft,18-3 AWG SVT platinum jacket, Right Angle power cord for electronic equipment. Standard 3 prong molded plug on one end, right angle IEC female on other end. Rated 120VAC 10A.

L: 7ft **WT:** .4

STOCK #	DESC.	1EA
17723-CB	7ft. Right Angle IEC Cord	$2.45

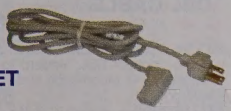
10FT. LAPTOP POWER CORD

10ft,18-3 AWG power cord used with some desktop power supplies & equipment. Standard 3 prong molded plug on one end, IEC Class 1-C5 female (3 round sockets) on other end. SVT Black jacket. Rated 120VAC 2.5A. UL/CSA Listed,

L: 10ft **WT:** .5

STOCK #	DESC.	1EA	100+EA
18227-CB	10ft Laptop Cordset	$2.49	$1.99

6FT. RIGHT ANGLE IEC CSA CORDSET



Removed from Equipment, 6ft,18-3 AWG SVT platinum jacket, Right Angle power cord for electronic equipment. Standard 3 prong molded plug on one end, right angle IEC female on other end. CSA listed. Rated 120VAC 10A.

L: 6ft. **WT:** .34

STOCK #	DESC.	1EA
17446-CB	6ft. CSA Right Angle IEC Cord	$2.49

6FT. RIGHT ANGLE IEC CORDSET

Removed from Equipment, 6ft,18-3 AWG SVT platinum jacket, Right Angle power cord for electronic equipment. Standard 3 prong molded plug on one end, right angle IEC female on other end. Rated 120VAC 10A.

L: 6ft. **WT:** .34

STOCK #	DESC.	1EA
17730-CB	6ft. Right Angle Cord	$2.49

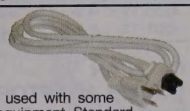
7FT. RIGHT ANGLE CSA CORDSET

Removed from Equipment, 7ft,18-3 AWG SVT platinum jacket, Right Angle power cord for electronic equipment. Standard 3 prong molded plug on one end, right angle IEC female on other end. CSA listed. Rated

L: 7ft. **WT:** .4

STOCK #	DESC.	1EA
17725-CB	7ft. Right Angle CSA IEC Cord	$2.49

6FT. LAPTOP POWER CORD



6ft,18-3 AWG power cord used with some desktop power supplies & equipment. Standard 3 prong molded plug on one end, IEC Class 1-C5 female (3 round sockets) on other end. SJT White jacket. Rated 120VAC 2.5A. CSA/VDE/CE Listed

L: 6ft **WT:** .4

STOCK #	DESC.	1EA	10+EA
17193-WI	6ft Laptop Cordset	$2.95	$2.49

6FT. UL 18-3 AWG IEC POWER CORD

6ft,18-3 AWG power cord used in equipment. Standard 3 prong molded plug on one end, standard IEC female on other end. Black jacket. UL/CSA listed. Rated 120VAC 10A.

L: 6ft **WT:** .4

STOCK #	DESC.	1EA	10+EA
12943-CB	6ftUL IEC Cordset	$2.49	$2.25

1FT. IEC POWER CORD

1ft. long, 18-3 SVT, power cord for such items as computers, printers, equip. etc. Std. 3 prong plug on one end and sdt. IEC female on other. Ideal for racks or benches with plug strips, No tangle of cords. CSA listed.

L: 1ft **WT:** .9

STOCK #	DESC.	1EA	5+EA
14908-WI	1ft IECPower Cord	$2.25	$1.99

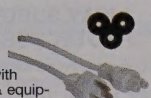
10FT IEC POWER CORD

10ft,18-3 AWG SJT Black jacket, power cord for electronic equipment. Clear hospital Grade, 3 prong molded plug on one end, standard IEC female on other end. CSA/CE listed.

L: 10ft **WT:** .7

STOCK #	DESC.	1EA
17605-CB	10ft IEC Black Cordset	$4.95

6FT. IEC CLASS-1 POWER CORD



6ft,18-3 AWG power cord used with some desktop power supplies & equipment. Standard 3 prong molded plug on one end, IEC Class 1 female -C5 (3 round socket) on other end. SVT gray jacket. International Rating 120/220VAC/2.5A. North America rating: 120VAC/7A

L: 6ft. **WT:** .4

STOCK #	DESC.	1EA	10+EA
16225-WI	Gray Class1 Cordset	$2.49	$2.25

5.5FT. UL 18-3 AWG IEC POWER CORD

5-1/2ft,18-3 AWG power cord used in equipment. Standard 3 prong molded plug on one end, standard IEC female on other end. Black jacket. UL/CSA listed. Rated 120VAC 10A.

L: 5-1/2ft **WT:** .33

STOCK #	DESC.	1EA
17415-CB	5.5ft. UL IEC Cordset	$2.95

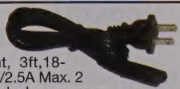
6FT. 18-2 AWG AUDIO EQUIP. CORD

6ft,18-2AWG power cord. 2 blade polarized molded plug on one end, 2 pin keyed female notebook/laptop/Audio equipment plug on other. SPT-2 black jacket.

L: 6ft **WT:** .25

STOCK #	DESC.	1EA	5+EA
15009-CB	6ft Notebook Cord	$1.49	$1.25

3FT. POWER CORD



Removed from Equipment, 3ft,18-2AWG power cord. 250VAC/2.5A Max. 2 blade Non-polarized molded plug on one end, IEC Class 2-C7, 2 pin female notebook/laptop/Audio/TV equipment plug on other. Black jacket. CSA Listed.

L: 3ft. **WT:** .13

STOCK #	DESC.	1EA
17108-CB	3ft. Class 2 Power Cord	$0.69

POWER CORD SPECIAL

6ft, 18-3 AWG, black PVC jacketed power cords. Standard 3 prong male molded plug on one end, & 3 blade molded IEC female on the other. 120VAC 10A rated.

L: 6' **WT:** .5

STOCK #	DESC.	1EA
7378-WI	6ft. IEC Power Cord	$1.99

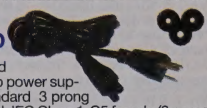
EQUIPMENT EXTENSION CABLE

Extension power cord with IEC Male on one end & IEC female on other. Use to extend monitors, computers Etc.

WT: .5

STOCK #	DESC.	1EA	5+EA
18042-CB	4.5ft Black CSA IEC Ext.	$1.95	----
18045-CB	6ft Plat. IEC Ext.	$2.50	----
18046-CB	6ft Black IEC Ext.	$2.95	----
12462-CB	6ft Black UL IEC Ext.	$2.50	----

6FT. LAPTOP POWER CORD

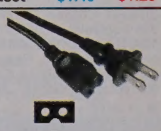


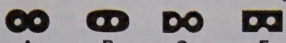
6ft,18-3 AWG power cord used with some desktop power supplies & equipment. Standard 3 prong molded plug on one end, IEC Class 1-C5 female (3 round sockets) on other end. SVT Black jacket. Rated 120VAC 2.5A. UL/CSA Listed, RoHS.

L: 6ft **WT:** .33

STOCK #	DESC.	1EA	100+EA
18069-CB	6ft Laptop Cordset	$1.49	$1.25

5.5FT. REPLACEMENT CORDS





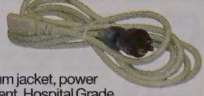
A B C F

5-1/2ft,consumer power cord. 250VAC/4A Max. 2 blade Non-polarized molded plug on one end, 2 pin female notebook/laptop/Audio/TV equipment plug on other. Black jacket.

L: 5-1/2ft **WT:** .25

STOCK #	FIG	DESC.	1EA	5+EA
15447-CB	A	Rnd. Non-Polar Cord	$1.25	$0.99
15448-CB	B	Rnd. Non-Polar Cord	$1.25	$0.99
15449-CB	C	Polar Cord Set	$1.25	$0.99
15452-CB	F	Keyed TV Cord	$1.25	$0.99

10FT,18-3 AWG IEC POWER CORD



10ft,18-3 AWG SJT platinum jacket, power cord for electronic equipment. Hospital Grade 3 prong molded plug on one end, standard IEC class 1, female on other end. CSA listed. Rated 250VAC

L: 10ft **WT:** .72

STOCK #	DESC.	1EA	100+EA
16045-CB	10ft IEC Cordset	$4.95	$4.25

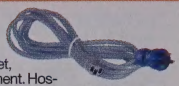
6FT. RIGHT ANGLE 14/3 CORDSET

6ft,14-3 AWG SJT Black jacket, Right Angle power cord for electronic equipment. Standard 3 prong molded plug on one end, right angle IEC female on other end. Rated 15A/125VAC. UL/CSA listed.

L: 6ft. **WT:** .7

STOCK #	DESC.	1EA
18041-CB	6ft. UL Right Angle IEC Cord	$4.95

10FT,18-3 AWG IEC CORD

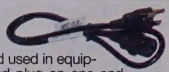


10ft,18-3 AWG SJT Gray jacket, power cord for electronic equipment. Hospital Grade 3 prong molded plug on one end, standard IEC class 1, female on other end. CSA listed. Rated 10A, 125VAC

L: 10ft **WT:** .72

STOCK #	DESC.	1EA
18184-CB	10ft IEC Cordset	$4.95

3FT,18-3 AWG IEC CORD



3ft,18-3 AWG Black, power cord used in equipment. Standard 3 prong molded plug on one end, standard IEC female on other end. Black jacket. Rated 10A @ 250V; 125V 15A @ 125V. CE/VDE Listed.

L: 3ft **WT:** .26

STOCK #	DESC.	1EA
18657-CB	3ft Volex IEC Cordset	$2.49

HI-TEMP IEC CONNECTOR

Snap-in, Chassis mount, Black thermoplastic, 120/220 VAC @ 10A, IEC 60320/C-16 three wire primary power connector for High Temperature appliances. Rated for "HOT" use @ 120deg. "C". .250" quick connect terminals. UL/CSA listed 15A@250V:VDE/TUV listed 10A@250V NOTE: Connector is "Keyed" for C-15 Plug & will not accept Std. C-13 Plug

W: 1-3/16" **H:** 7/8" **D:** 1-1/8" **WT:** .016

STOCK #	DESC.	1EA
17371-PL	High Temp. IEC Inlet	$0.49

IEC POWER INLET

Snap-in, Chassis mount, Black thermoplastic, 120/220 VAC @ 10A, IEC 60320/C-14 three wire primary power connector. Rated for 70deg. "C". .250" quick connect terminals. UL/CSA listed 15A@250V/ VDE,TUV etc. listed 10A@250V, accepts Std. C-13 Plug

W: 1-3/16" **H:** 1" **D:** 1-1/8" **WT:** .018

STOCK #	DESC.	1EA
18260-PL	Standard IEC Power Inlet	$0.75

IEC POWER INLET

IEC 60320 type C-14 Right Angle P.C. mount, power inlet. Rated: 15A @ 250VAC UL/CSA. Standard IEC equipment end male 3 blade cord connector. Solder terminals.

W: 2" **H:** 1-1/16" **D:** 1-1/16" **WT:** .04

STOCK #	DESC.	1EA
18022-PL	IEC P.C. Mount Power Inlet	$0.79

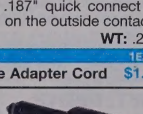
CIGARETTE ADAPTER CORD

Cigarette lighter plug with Replaceable 2A GMA fuse. 12ft ZIP cord with a Female .187" quick connect on center pin lead & a Male .187" on the outside contacts.

L: 12ft. **WT:** .22

STOCK #	DESC.	1EA
18525-CB	12ft. Cigarette Adapter Cord	$1.95

CIGARETTE LIGHTER ADAPTER



Adapter has 3 built in LEDs showing battery status. Expands dash cigarette lighter socket to handle a cagarette lighter & 2 devices. Replaceable 10A fuse.

L: 5-1/4" **H:** 3" **T:** 1-1/4" **WT:** .22

STOCK #	DESC.	1+EA
18030-MI	3 Way Cigarette Lighter Adp.	$5.95

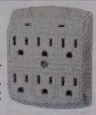
6 WAY SAFETY ADAPTER

Wall mount shock protector. Provides 6 outlets from standard Duplex outlet. Internal cover plates Prevent objects from being inserted in live holes. Both Blades must be inserted at the same time. NOT A SURGE LIMITER. UL/CSA Listed.

WT: .4

STOCK #	DESC.	1EA
18534-MI	6 Way Shock Protector	$3.95

6 WAY SURGE PROTECTOR

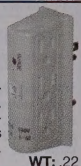


Wall mount surge protector. Protect electronic equipment from electrical spikes. Built in status indicator light. Clamp Volts: 400, U/L listed.

WT: .7

STOCK #	DESC.	1EA	5+EA
4370-MI	6 Way Surge Protector	$9.95	$7.95

6 WAY SURGE PROTECTOR



Wall mount surge protector plugs into Duplex recp. 6 outlets protected L/N & L/Gnd. 1875 W max. Load. Protect electronic equipment from electrical spikes. Built in status indicator light. Clamp Volts: 330V. UL listed.

WT: .22

STOCK #	DESC.	1EA	10+EA
18023-MI	6 Way Surge Protector	$4.95	$4.49

3 WAY SURGE PROTECTOR

Cubical furniture column mount EMI/surge protector. 15A max. Load. Clamp voltage: 330V/140Joules. Designed to mount over hole in desktop in corner shelf support. Remove 2 bolts & you can screw to wall or desk. 9ft. 14-3 AWG cord plugs into wall recp. 2 outlets on face + 1 receptacle on 4" cord. Outlets protected L/N, L/Gnd. & N/Gnd. Includes input & outlet RJ jacks for LAN & Phone. UL listed.

L: 8-1/4" **W:** 2-3/4" **D:** 3-3/4" **WT:** 2.1

STOCK #	DESC.	1EA
18265-MI	Cubical Surge Protector	$8.95

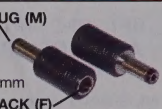
COAXIAL POWER JACK

Plastic, P.C. mount power connector. Designed for 5.5mm/2.1mm dia. power plugs. Solder terminals

WT: .004

STOCK #	DESC.	1EA	100EA
18027-PL	5.5/2.1mm Power Jack	$0.49	$0.39

POWER PLUG ADAPTERS

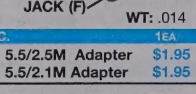


Plastic body Barrel connector, 5.5mm O/D Plug TO 2.5 or 2.1mm I/D Adapters.

L: 1-7/16" **WT:** .014

STOCK #	DESC.	1EA
17573-PL	5.5/2.1F to 5.5/2.5M Adapter	$1.95
18238-PL	5.5/2.5F to 5.5/2.1M Adapter	$1.95

COAXIAL POWER JACKS



Plastic, Chassis mount power connector. Designed for 5.5mmO/D plugs. Aux. contact connected to sleeve with no plug inserted. Solder terminals

L: 7/8" **Mtg. Hole:** 5/16" **Dia.:** 15/32" **WT:** .007

STOCK #	DESC.	1EA
18549-PL	5.5/2.1mm Power Jack	$1.49
18550-PL	5.5/2.5mm Power Jack	$1.49

CABLE ORGANIZER

10pcs. set of velcro cable tys. 7in. of Loop with 1in. of hook on reverse side used to organize all those Computer, or home entertainment cables and cords. Holds up to 2in. bundle.

L: 7-1/2" **W:** 3/4" **WT:** .05

STOCK #	DESC.	1EA
17918-TY	10 Pack 7.5" Hook/Loop Ties	$1.25

CABLE ORGANIZERS

10pcs. set of velcro cable tys. 6in. of Loop with 2in. of hook on reverse side used to organize all those Computer, or home entertainment cables and cords. Holds up to 1-3/4in. bundle.

L: 7" **W:** 1" **WT:** .06

STOCK #	DESC.	1EA
17881-TY	10 Pack Hook/Loop Ties	$1.95

DSL CABLE

3-COM "Polarity" patch cable used to connect DSL Modem to Network RJ-45 plugs each end. Wired:

Pin 1 to Pin 1 Pin 2 to Pin 2
Pin 3 to Pin 6 Pin 4 & 5 Open
Pin 6 to Pin 3

L: 6ft. **WT:** .12

STOCK #	DESC.	1EA
17754-TT	3-COM DSL "Polarity Cable	$0.59

SURFACE MTG. DUAL JACK

Surface mount "Mod" RJ-11 jacks with internal block. Two jacks wired in parallel. For single line with two outlets.

WT: .01

STOCK #	DESC.	1EA	2+EA
9233-TT	Dual Jack	$3.25	$2.95

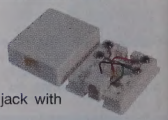
"MOD" CORD COUPLER

RJ-12 to RJ-12, (6X6) Telephone line cord coupler. Wired straight through. Ivory color.

WT: .02

STOCK #	DESC.	1EA	10+EA
15474-TT	RJ-12 Straight Coupler	$0.95	$0.79

SURFACE MOUNT JACK

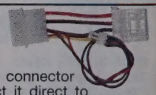


Surface mount RJ-11 "Mod" jack with internal terminal block.

WT: .09

STOCK #	DESC.	1EA	2+EA
4230-TT	4 Wire Surface Jack	$1.68	$1.49
4231-TT	6 Wire Surface Jack	$1.95	$1.79

CPU FAN POWER ADAPTOR

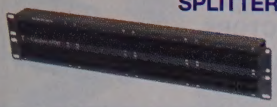


Use to remove 3 pin CPU fan connector from motherboard and connect it direct to your power supply. Standard large 4 pin drive M/ Fconnectors to mini fan plug.

L: 2"tap / 6" Fan **WT:** .02

STOCK #	DESC.	1EA	5+EA
12834-CB	CPU Fan Adapt. Cable	$2.49	$1.95

SPLITTER PANEL



CISCO P/NWS-F56K-48X2-SPLTR= for Catalyst 6500 systems. Dark Gray steel panel fits standard 19" racks. 48 Inputs X 96 Output Ports. Accepts std. Cat-5e RJ-45 plug & splits to 2 RJ-45 Output Jacks.
H: 3-1/2" (2U) **WT:** 4

STOCK #	DESC.	1EA
16769-TT	Cisco Splitter Panel	$29.95

CAT-5 RJ-45 "MOD" CRIMP PLUGS

"Modular" RJ-45 plugs feature .35mm phor-bronze contacts with 50 u-inch gold over 50-100 u-in. nickel plated plating For 24-28AWG solid/stranded wire. Conforms to FCC-68.5 requirements. UL Listed. 2 prong for medium duty use (2 point wire connection) 3 prong for heavy duty use (3 Point wire connection)
WT: .001

STOCK #	DESC.	1EA	25+EA
11118-TT	RJ-45 Stranded Wire	$0.30	$0.28
11119-TT	RJ-45 Solid Wire 2 Prong	$0.35	$0.33
11120-TT	RJ-45 Solid Wire 3 Prong	$0.42	$0.39

"Y" ADAPTERS

"Y" adapter allow multiple pieces of phone equipment to share one outlet. One "Mod" plug to "Mod" jacks. 6X4 RJ-11 jacks (4 Wire), 6X6 RJ-12 (6 Wire)
WT: .01

STOCK #	DESC.	1EA	10+EA
4225-TT	2 Way 6X4 Adapter	$0.95	$0.79
4226-TT	2 Way 6X6 Adapter	$1.00	$0.89
4909-TT	3 Way 6X4 Adapter	$1.80	$1.49

"Y" LINE SPLITTER

Splitter changes a RJ-11 4 X 6 "MOD" 2 line jack into 3 jacks. One jack has Line 1 & Line 2; second jack has Line 1 only and third jack has line 2 only.
WT: .01

STOCK #	DESC.	1EA	2+EA
5936-TT	"Y" Line Splitter	$1.95	$1.69

MODULAR PHONE CABLES

RJ-11(4X6) Mod cables made up in convienent lengths. Cross wired for telephone use; or parallel for data use.

STOCK #	LENGTH	DESC.	WT	1EA	10+EA
4241-TT	7ft	Phone	.1	$1.45	$1.29
4243-TT	14ft	Phone	.5	$2.45	$1.99
4244-TT	14ft	Data	.5	$2.45	$1.99
4245-TT	25ft	Phone	1	$3.49	$2.99
4246-TT	25ft	Data	1	$3.49	$2.99

CAT-5E CROSSOVER CABLE

14ft. Red Cat 5e, 10/100 Base-T Crossover wired (EIA/TIA568B) patch cable. For Uplink or Computer to computer link
Pinned as follows:

1-3	2-6
3-1	4-4
5-5	6-2
7-7	8-8

L: 14ft. **WT:** .3

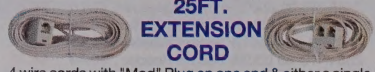
STOCK #	DESC.	1EA
17580-TT	Cat-5e Crossover Cable	$2.95

TELCO TYPE TEST CLIPS

Mueller JP-8078, 2-1/4"Angled Telco alligator clips with cable piercing tool steel spike. Designed to grip punch-down blocks as well as wire posts etc. Nickel-silver, with brass screw, washer & bronze lock washer. Includes pair of clips plus 1 Red & 1 Black flexible vinyl boot. For test leads, clip leads, or test jigs.
L: 2-1/4" **WT:** .088

STOCK #	DESC.	1EA
18160-TL	Mueller Telco Gator Clips	$6.95

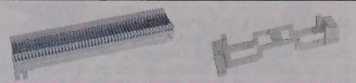
25FT. EXTENSION CORD



4 wire cords with "Mod" Plug on one end & either a single RJ-11 jack or a dual RJ-11 "Y" jack on other.
WT: .1

STOCK #	DESC.	1EA	2+EA
4912-TT	25 Ft Extender	$2.50	$2.25
4910-TT	25 Ft "Y" Extender	$2.90	$2.49

TYPE 66 PUNCH-DOWN BLOCK



Type 66M punchdown block for terminating 25 pair, multi-line phone cables. Also used for security systems & similar applications
Type 89 Plastic Mounting Bracket for 66M Block
WT: .5 Block .2 Support Bracket .001 Clips

STOCK #	DESC.	1EA	10+EA
7186-TT	66 Punch Down Block	$21.95	$21.45
7187-TT	Block Support Bracket	$2.79	$2.29
11080-TT	Bridging Clip	$0.15	$0.13

UL LISTED FLAT PHONE CABLE

Flat, UL listed multi conductor 26 AWG bulk pack cable. Used to interconnect phone equipment to wall jack, or handset to phone. Silver color, 1000ft put-ups only.
WT: 12lb/1000ft. 4 conductor

STOCK #	DESC.	1EA	5+EA
8349-WI	4 Cond. UL Cable	$69.95	$59.95

UL LISTED "MOD" CRIMP PLUGS

Cat-3 Standard crimp-on "Modular" plugs for Flat Cable. Available for line or handset.
WT: .001

STOCK #	DESC.	1EA	25EA	100+EA
6282-TT	6X4 RJ-11 Plug	$0.20	$0.11	$0.10
6283-TT	6X6 RJ-12 Plug	$0.22	$0.16	$0.13
6284-TT	8X8 RJ-45 Plug	$0.35	$0.20	$0.19

ECONOMY "MOD" CRIMP PLUGS

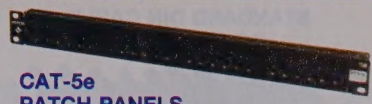
Cat-3 Standard crimp-on "Modular" plugs. For flat cable Available for line or handset.
WT: .001

STOCK #	DESC.	1EA	25EA	100+EA
4236-TT	6X4 RJ-11 Plug	$0.15	$0.10	$0.08
4237-TT	6X6 RJ-12 Plug	$0.20	$0.15	$0.12
4238-TT	4X4 Handset Plug	$0.30	$0.25	$0.24

"BEENIE" SPLICE

UR or UY style "Beenie" splices for phone & alarm systems.
UR: 2port UY: 3port
UY UR
WT: .2

STOCK #	DESC.	1PK	5+PK
14444-TT	100pcs. "UR" Slice	$12.95	$10.95
14445-TT	100pcs. "UY" Slice	$16.95	$14.95

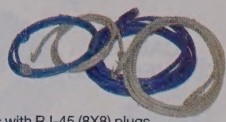


CAT-5e PATCH PANELS

SIEMON P/N HD5-24, Category-5e UL/C SA verified & listed panel fits standard 19" racks. Black aluminum. 50 micro inch gold over 80 micro in. nickel plated RJ-45 contacts. For 22-26AWG solid wire. Solder plated Type 110 terminations. Conforms to FCC-68.5 requirements & EIA/TIA T568A & B wiring standards. Includes: Rear cable management steel bracket, Label bracket & lables, Rack screws
H: 1-3/4" (1U) **WT:** 1.9

STOCK #	DESC.	1EA
16422-TT	24 Port Cat5e Panel	$14.95

CAT- 5E PATCH CABLES



Flexible patch cables with RJ-45 (8X8) plugs. Straight wired to T568B ATT-258A standards. 100% tested wire sequence & continuity. Verified to EIA/TIA Cat. 5E standards. Plugs feature 50 micro inch gold plated contacts. Conforms to FCCrequirements

STOCK #	DESCRIPTION	WT.	1EA	10+EA
16931-TT	1ft. Yellow Cat-5e Cable	.03	$0.49	$0.45
16932-TT	1ft. Blue Cat-5e Cable	.03	$0.49	$0.45
16934-TT	3ft. Yellow Cat-5e Cable	.05	$0.69	$0.59
16935-TT	3ft. Blue Cat-5e Cable	.05	$0.69	$0.59
16461-TT	3ft. Gray Cat-5e Cable	.05	$0.69	$0.59
16937-TT	7ft. Yellow Cat-5e Cable	.1	$1.25	$0.99
16938-TT	7ft. Blue Cat-5e Cable	.1	$1.25	$0.99
16462-TT	7ft. Gray Cat-5e Cable	.1	$1.25	$0.99
17120-TT	14ft. Yellow Cat-5e Cable	.1	$1.99	$1.69
17121-TT	14ft. Blue Cat-5e Cable	.1	$1.99	$1.69
17122-TT	14ft. Gray Cat-5e Cable	.1	$1.99	$1.69
16943-TT	25ft. Yellow Cat-5e Cable	.4	$2.99	$2.69
16944-TT	25ft. Blue Cat-5e Cable	.4	$2.99	$2.69
16464-TT	25ft. Gray Cat-5E Cable	.4	$2.99	$2.69
16946-TT	50ft. Yellow Cat-5e Cable	.7	$5.49	$4.99
16947-TT	50ft. Blue Cat-5e Cable	.7	$5.49	$4.99
16465-TT	50ft. Gray Cat-5e Cable	.7	$5.49	$4.99
16949-TT	100ft. Yellow Cat-5e Cable	1.2	$9.95	$8.95
16950-TT	100ft. Blue Cat-5e Cable	1.2	$9.95	$8.95
16951-TT	100ft. Gray Cat-5E Cable	1.2	$9.95	$8.95

KEYSTONE VIDEO CONNECTOR

White snap in Keystone Bezels with a 75 ohm type "F" video female connector. For use in distribution systems using keystone style wall plates.
WT: .02

STOCK #	DESC.	1EA	6+EA
14477-TT	F Connector Keystone	$1.95	$1.75

FILTERED RJ-45 JACK

Corcom F9600D Single position, PC mount 8X8 contact (RJ-45) telephone modular jack. Ferrite beads on each contact and shield covers all but face & bottom. White plastic body & gold pins. Face fits in .6" sq. cutout. Plug fits Tab Down.
L: 15/16" **W:** 3/4" **H** 3/4" **WT:** .022

STOCK #	DESC.	1EA	25+EA
11438-TT	Filtered RJ-45 Jack	$2.95	$1.82

"B" SPLICES

Standard type "B" crimp splices. Provides permanent connection for phone or alarm wires.
WT: .001

STOCK #	DESC.	1EA	25EA	100+EA
5873-TT	"B" Splice	$0.15	$0.10	$0.09

STANDARD DIN CABLE CONNECTORS

WT: .02

STOCK #	TYPE	DESC.	1EA	25EA	100+EA
5607-PL	Male	5 Pin 45°	$0.42	$0.35	$0.28
5608-PL	Female	5 Pin 45°	$0.63	$0.53	$0.42
5611-PL	Male	6 Pin	$0.48	$0.40	$0.32
5612-PL	Female	6 Pin	$0.72	$0.60	$0.48
5614-PL	Female	7 Pin	$0.81	$0.68	$0.54
5615-PL	Male	8 Pin	$0.56	$0.46	$0.37

MINI DIN CABLE CONNECTORS

WT: .02

STOCK #	TYPE	DESC.	1EA	25EA	100+EA
5601-PL	Male	4 Pin	$0.87	$0.73	$0.58
5602-PL	Female	4 Pin	$1.12	$0.93	$0.74
5603-PL	Male	6 Pin	$1.05	$0.88	$0.70
5604-PL	Female	6 Pin	$1.26	$1.05	$0.84
5605-PL	Male	8 Pin	$1.46	$1.21	$0.97

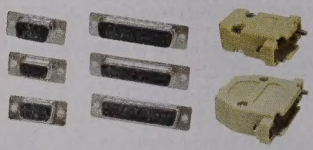
DB PC MOUNT CONNECTORS

Right angle PC mount connectors. Metal face, gold plated contacts. 3/4" from face to back.

WT: .02

STOCK #	DESC.	1EA	25+EA
4840-PL	DB-9 Female 90° Mount	$0.45	$0.41
4896-PL	DB-9 Male 90° Mount	$0.45	$0.41
5687-PL	DB-15 Male 90O Mount	$0.65	$0.58

DB CONNECTORS

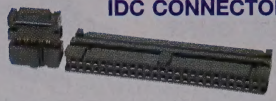


WT: .05

STOCK #	DESC.	1EA	25+EA
2856-PL	DB-9 Male Solder	$0.24	$0.19
2857-PL	DB-9 Female Solder	$0.28	$0.24
5395-PL	DB-15 Male Hi Den.	$0.69	$0.59
5394-PL	DB-15 Female Hi Den.	$0.79	$0.69
2859-PL	DB-9 Plastic Hood	$0.39	$0.35
2860-PL	DB-15 Male Solder	$0.45	$0.36
2861-PL	DB-15 Female Solder	$0.45	$0.36
0133-PL	DB-15 Hood	$0.75	$0.59
2444-PL	DB-25 Male Solder	$0.39	$0.29
2445-PL	DB-25 Female Solder	$0.49	$0.39
2446-PL	DB-25 Plastic Hood	$0.39	-----
2865-PL	DB-37 Male Solder	$0.65	$0.52
2866-PL	DB-37 Female Solder	$0.65	$0.52
0134-PL	DB-37 Hood	$1.00	$0.79
6949-PL	DB-50 Male Solder	$1.95	$1.59
6950-PL	DB-50 Female Solder	$1.85	$1.39
0136-PL	DB-50 Hood	$1.25	$0.95

SIGN-UP FOR OUR EMAIL SPECIALS ON MPJA.COM

IDC CONNECTORS



Insulation displacement header connectors. Gold plated, .025 square pins with .100 spacing.

WT: .03

STOCK #	DESC.	1EA	25+EA
0891-HC	10 (2X5) Socket Header	$0.39	$0.29
0893-HC	16 (2X8) Socket Header	$0.68	$0.59
2883-HC	20 (2X10) Socket Header	$0.75	$0.59
0895-HC	26 (2X13) Socket Header	$0.75	$0.59
4709-PL	34 (2X17) Socket Header	$0.45	$0.32
2884-HC	40 (2X20) Socket Header	$0.49	$0.39
4710-PL	50 (2X25) Socket Header	$0.49	$0.39

TELCO TYPE TEST CLIPS

Mueller JP-8078, 2-1/4"Angled Telco alligator clips with cable piercing tool steel spike. Designed to grip punch-down blocks as well as wire posts etc. Nickel-silver, with brass screw, washer & bronze lock washer. Includes pair of clips plus 1 Red & 1 Black flexible vinyl boot. For test leads, clip leads, or test jigs.

L: 2-1/4" WT: .088

STOCK #	DESC.	1EA
18160-TL	Mueller Telco Gator Clips	$6.95

BATTERY CLIPS & BOOTS

Handy mesh jaw, steel battery clip with insulated Red or Black Vinyl plastic boot. Amp listed is Max for part.

STOCK #	DESC.	WT.	1EA	5+EA
16437-BC	5A Clip Red	.015	$0.25	$0.15
16438-BC	5A Clip Black	.015	$0.25	$0.15
16439-BC	10A Clip Red	.05	$0.35	$0.25
16440-BC	10A Clip Black	.05	$0.35	$0.25
16441-BC	20A Clip Red	.03	$0.40	$0.30
16442-BC	20A Clip Black	.03	$0.40	$0.30
16443-BC	30A Clip Red	.04	$0.45	$0.35
16444-BC	30A Clip Black	.04	$0.45	$0.35
16445-BC	50A Clip Red	.06	$0.59	$0.49
16446-BC	50A Clip Black	.06	$0.59	$0.49

ALLIGATOR CLIPS & BOOTS

Alligator clips with Red or Black Vinyl boot. Solder or crimp. mm listed is length of metal clip

STOCK #	DESC.	WT.	1EA	5+EA
16450-AL	27mm Clip Red	.003	$0.10	$0.05
16451-AL	27mm Clip Blk	.003	$0.10	$0.05
16452-AL	35mm Clip Red	.005	$0.15	$0.07
16453-AL	35mm Clip Blk	.005	$0.15	$0.07
16454-AL	45mm Clip Red	.009	$0.19	$0.09
16455-AL	45mm Clip Blk	.009	$0.19	$0.09
16456-AL	50mm Clip Red	.013	$0.29	$0.12
16457-AL	50mm Clip Blk	.013	$0.29	$0.12

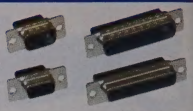
DUAL BINDING POSTS

Red & Black, safety binding posts accept banana plug in top or wire through hole in side. All front panel connections are recessed to pervent contact. Mounts in double .50" holes on .75" ctr. Solder terminals onback.

WT: .07

STOCK #	DESC.	1EA	10+EA
14492-PL	Dual BindingPost	$1.95	$1.75

DB CRIMP CONNECTORS



Metal face DB Housings for crimp pins (Not included)

WT: .1

STOCK #	DESC.	1EA	25+EA
16251-PL	DB-9 Male Crimp	$0.59	$0.49
16252-PL	DB-9 Female Crimp	$0.59	$0.49
16253-PL	DB-15 Male Crimp	$0.69	$0.59
16254-PL	DB-15 Female Crimp	$0.69	$0.59
16255-PL	DB-25 Male Crimp	$0.69	$0.59
16256-PL	DB-25 Female Crimp	$0.69	$0.59
16257-PL	DB-37 Male Crimp	$1.19	$0.99
16258-PL	DB-37 Female Crimp	$1.19	$0.99
16259-PL	DB-50 Male Crimp	$2.99	$2.79
16260-PL	DB-50 Female Crimp	$2.99	$2.79
16261-PL	DB-15 Male Hi Den.	$0.79	$0.69
16262-PL	DB-15 Female Hi Den.	$0.79	$0.69

DB CRIMP PINS

3 micro inch Gold over 50micro in. nickel for 24-28AWG Wire

STOCK #	DESC.	1EA	4+EA
16265-PL	Male Crimp Pin/100	$4.99	$4.49
16266-PL	Female Crimp Pin/100	$4.99	$4.49
16267-PL	Male Crimp Pin/5KReel	$99.00	---
16268-PL	Female Crimp Pin/5KReel	$99.00	---
16269-PL	HD Male Crimp Pin/100	$4.99	$4.49
16270-PL	HD Female Crimp/100	$4.99	$4.49
16271-PL	HD Male Crimp/5KReel	$99.00	---
16272-PL	HD Female Crimp/5KReel	$99.00	---

DB CONNECTOR PIN CRIMP TOOL

Multi Purpose Crimp Tool
Features: Cushioned Grips.
Use: Crimping Open (stamped) D-Sub Pins, Terminal Lugs. For 14-26 AWG Wire.
NOTE: Will not crimp High Density DB Pins.

WT: .6

STOCK #	DESC.	1EA	10EA
11763-TL	Multi Crimp Tool	$9.95	$7.95

DB CRIMP PIN EXTRACTOR

Tool used to extract crimp pins from insertion type DB connectors. Double ended For Pin & Socket type connectors (16251-PL - 16262-PL)

WT: .03

STOCK #	DESC.	1EA
17124-TL	DB-Crimp Pin Extractor	$4.75

DB CONNECTORS INSULATION DISPLACEMENT

GOLD PLATED CONTACTS FOR .05" SPACING FLAT CABLE

WT: .1

STOCK #	DESC.	1EA	25+EA
2870-PL	DB-9 Male IDC	$1.95	$1.59
2871-PL	DB-9 Female IDC	$1.95	$1.59
2872-PL	DB-15 Male IDC	$2.25	$1.79
2873-PL	DB-15 Female IDC	$2.25	$1.79
0922-PL	DB-25 Male IDC	$1.50	$1.19
0928-PL	DB-25 Female IDC	$1.50	$1.19

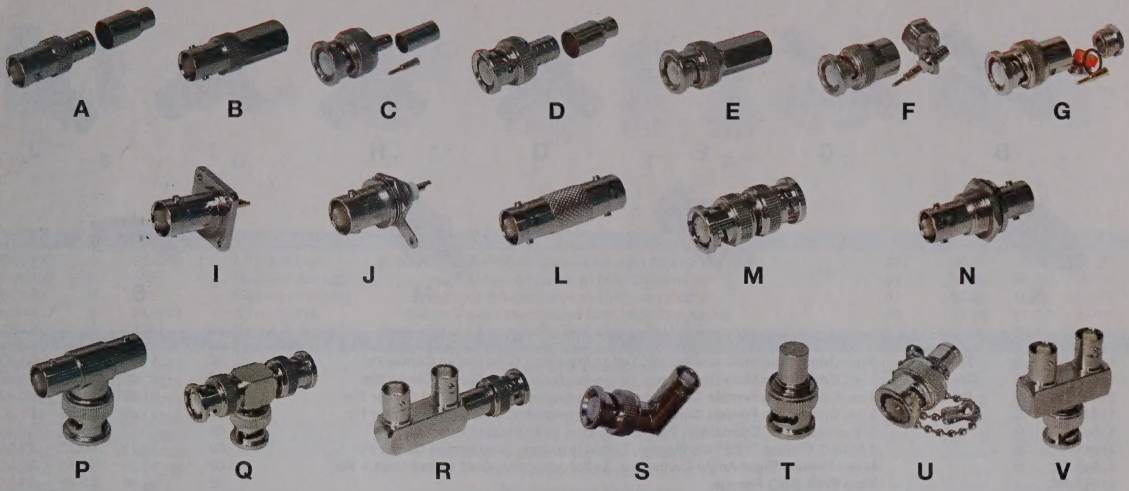
BANANA PLUGS

Black banana plugs with nickel plated brass Four leaved spring tip, thermoplastic cover. Solder connection.

WT: 05

STOCK #	DESC.	1EA	10+EA
8071-PL	Black Banana Plug	$0.25	$0.19

BNC CONNECTORS



STOCK #	FIG.	TYPE	RG CABLE	DESCRIPTION	WT.	1EA	25+EA	100+EA
3999-RC	A		58	2 Piece Crimp BNC Female Connector	.02	$1.25	$0.99	$0.89
4585-RC	A		59,62	2 Piece Crimp BNC Female Connector	.02	$1.25	$0.99	$0.89
4586-RC	A		6	2 Piece Crimp BNC Female Connector	.02	$1.25	$0.99	$0.89
4587-RC	A		Teflon 59, 62	2 Piece Crimp BNC Female Connector	.02	$1.50	$1.25	$0.99
5416-RC	B		58	Twist-on BNC Female Connector	.02	$1.65	$1.39	$1.25
5417-RC	B		59,62	Twist-on BNC Female Connector	.02	$1.65	$1.39	$1.25
5418-RC	B		Teflon 59,62	Twist-on BNC Female Connector	.02	$1.65	$1.39	$1.25
5401-RC	C		58	Standard 3 Piece Crimp BNC Male Connector	.02	$1.25	$0.99	$0.89
5402-RC	C		Teflon 58	Standard 3 Piece Crimp BNC Male Connector	.02	$1.25	$0.99	$0.89
5403-RC	C		59,62	Standard 3 Piece Crimp BNC Male Connector	.02	$1.25	$0.99	$0.89
5404-RC	C		Teflon 59, 62	Standard 3 Piece Crimp BNC Male Connector	.02	$1.25	$0.99	$0.89
5405-RC	C		6	Standard 3 Piece Crimp BNC Male Connector	.02	$1.25	$0.99	$0.89
5406-RC	C		Belden 8281	Standard 3 Piece Crimp BNC Male Connector	.02	$1.25	$0.99	$0.89
5426-RC	D		58	2 Piece Crimp BNC Male Connector	.02	$1.20	$0.99	$0.89
5427-RC	D		Teflon 58	2 Piece Crimp BNC Male Connector	.02	$1.20	$0.99	$0.89
5428-RC	D		59,62	2 Piece Crimp BNC Male Connector	.02	$1.20	$0.99	$0.89
5429-RC	D		Stranded 59,62	2 Piece Crimp BNC Male Connector	.02	$1.20	$0.99	$0.89
5430-RC	D		Teflon 59,62	2 Piece Crimp BNC Male Connector	.02	$1.20	$0.99	$0.89
5431-RC	D		6	2 Piece Crimp BNC Male Connector	.02	$1.45	$1.25	$1.15
5432-RC	D		Belden 8281	2 Piece Crimp BNC Male Connector	.02	$1.49	$1.25	$1.10
5420-RC	E		58	Twist-on BNC Male Connector	.02	$1.50	$1.25	$0.99
5421-RC	E		Teflon 58	Twist-on BNC Male Connector	.02	$1.50	$1.25	$0.99
5422-RC	E		59,62	Twist-on BNC Male Connector	.02	$1.50	$1.25	$0.99
5423-RC	E		Teflon 59,62	Twist-on BNC Male Connector	.02	$1.50	$1.25	$0.99
5424-RC	E		6	Twist-on BNC Male Connector	.02	$1.50	$1.25	$0.99
5425-RC	E		Belden 8281	Twist-on BNC Male Connector	.02	$1.65	$1.35	$1.15
5412-RC	F		58	3 piece Solder BNC Male Connector	.02	$2.35	$2.15	$2.05
5413-RC	F		59,62	3 piece Solder BNC Male Connector	.02	$1.50	$1.30	$1.19
5414-RC	F		Teflon 59,62	3 piece Solder BNC Male Connector	.02	$1.50	$1.30	$1.19
5433-RC	G		58	Standard Solder BNC Male Connector	.02	$1.45	$1.25	$1.15
5434-RC	G		59,62	Standard Solder BNC Male Connector	.02	$1.45	$1.25	$1.15
9224-RC	I	UG-290	-	BNC Female 4 Hole Panel Mount	.1	$1.69	$1.59	$1.49
0507-RC	J	UG1094	-	BNC Female Single Hole Panel Mount	.1	$1.00	$0.89	$0.79
0508-RC	L		-	BNC Adaptor 2 Female Connectors	.1	$0.99	----	----
0509-RC	M		-	BNC Adaptor 2 Male Connectors	.1	$1.95	$1.79	$1.60
0557-RC	N	UG492	-	BNC Bulkhead Mount 2 Female Connectors Not Isolated	.1	$2.95	$2.59	$2.19
5435-RC	N	UG492	-	BNC Bulkhead Mount 2 Female Connectors Isolated	.1	$3.35	$2.79	$2.25
0511-RC	P		-	BNC "TEE" 2 Female & 1 Male Caonnectors	.1	$2.25	$1.99	$1.59
5437-RC	Q		_	BNC "TEE" 3 Male Connectors	.1	$4.95	$4.49	$4.25
6518-RC	R		-	BNC LAN "TEE" 2 Female & 1 Male Connectors	.1	$4.99	$4.59	$4.29
0510-RC	S	UG306	-	BNC "Elbow" 1 Female - 1 Male Connectors	.1	$2.50	$1.95	$1.59
3131-PL	T		-	BNC Male 93 Ohm 1/2 Watt Terminator	.1	$2.49	$1.95	$1.59
3137-PL	T		-	BNC Male 75 Ohm 1/2 Watt Terminator	.1	$2.49	$1.95	$1.59
3138-PL	T		-	BNC Male 50 Ohm 1/2 Watt Terminator	.1	$2.49	$1.95	$1.59
7547-RC	U		-	BNC Male 50 Ohm 1/2 Watt Terminator/4" Chain	.1	$1.95	$1.89	----
11564-RC	V		-	BNC Straight "TEE" 2 Female & 1 Male Connectors	.03	$5.95	$5.59	$4.69

SMA CONNECTORS & ADAPTERS

B

C

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STOCK #	FIG.	RG CABLE	DESCRIPTION	WT.	1EA	25+EA	100+EA
11833-RC	B	RG-58A	3 pc. Crimp type Male Connector, Teflon Insulator, Gold Plated Center Pin	.02	$1.49	$1.28	$1.03
11834-RC	B	RG-59/62	3 pc. Crimp type Male Connector, Teflon Insulator, Gold Plated Center Pin	.02	$1.49	$1.28	$1.03
11835-RC	C	RG-58A	3 pc. Crimp type Female Connector, Teflon Insulator, Gold Plated Center Pin	.02	$1.39	$1.15	$0.93
11836-RC	C	RG-59/62	3 pc. Crimp type Female Connector, Teflon Insulator, Gold Plated Center Pin	.02	$1.89	$1.62	$1.31
11840-RC	G		3 Female "TEE" Connector, Teflon Insulator, Gold Plated Center Pin	.02	$3.75	$3.20	$2.58
11841-RC	H		1 Male-2 Female "TEE" Connector, Teflon Insulator, Gold Plated Center Pin	.02	$3.75	$3.20	$2.58
11842-RC	I		Male- Female Right Angle Connector, Teflon Insulator, Gold Plated Center Pin	.02	$3.39	$2.75	$2.22
11843-RC	J		Male SMA-BNC Female	.02	$2.59	$2.29	$1.84
11844-RC	K		Male SMA-BNC Male	.02	$3.29	$2.75	$2.65
11845-RC	L		Female SMA-BNC Male	.02	$2.95	$2.59	$2.09
11846-RC	M		Male SMA-UHF Female	.02	$2.99	$2.65	$2.13
16722-RC	S		Female SMA-PC Edge Mtg. for .032" Stripline/PC Board	.007	$2.79	$2.53	$2.19

"N" CONNECTORS

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STOCK #	FIG.	TYPE	RG CABLE	DESCRIPTION	WT.	1EA	25+EA	100+EA
5445-RC	A	-	8,11,213,214	Twist-on "N" Male Connector	.05	$3.25	$2.95	$2.25
5446-RC	B	-	8,11,213,214	3 pc Crimp-on "N" Male Connector	.05	$4.95	$4.75	$4.59
5447-RC	B	-	59U	3 pc Crimp-on "N" Male Connector	.05	$2.95	$2.75	$2.45
0533-RC	D	UG-23	8,11	Solder Type "N" Female Connector	.1	$3.50	$3.25	$2.25
5448-RC	E	-	-	50 Ohm Terminator "N" Male Connector	.1	$3.95	$3.69	$2.95
0534-RC	G	UG-28	-	"N" "TEE" with 3 Female Connectors	.1	$5.95	$5.75	$5.49
0517-RC	H	UG-107	-	"N" "TEE" 2 Female & 1 Male Connectors	.1	$5.00	$4.59	$3.98
0516-RC	J	UG-27	-	"N" "Elbow" 1 Female & 1 Male Connector	.1	$4.95	$4.49	$4.25
0515-RC	K	UG-57	-	"N" Adaptor with 2 Male Connectors	.1	$2.95	$2.77	$2.59
0514-RC	L	UG-29	-	"N" Adaptor with 2 Female Connectors	.1	$3.45	$2.95	$2.79
0513-RC	M	UG-58	-	"N" Female 4 Hole Panel Mount	.1	$2.50	$2.33	$1.98

UHF CONNECTORS

A B C D E F G H I J

STOCK #	FIG.	TYPE	RG CABLE	DESCRIPTION	WT.	1EA	25+EA	100+EA
0500-RC	A	PL-259	8,11,213,214	Solder Type UHF Male Connector with Plastic Insulator	.02	$0.75	$0.69	$0.65
0525-RC	B	175	Reducer For 58U	Adapts RG-58 Cable to UHF Connector	.01	$0.25	$0.20	$0.18
0524-RC	B	176	Reducer For 59U	Adapts RG-58 Cable to UHF Connector	.01	$0.25	$0.20	$0.18
4690-RC	A	PL-259	8,11,213,214	Solder Type Silver Plated UHF Male Connector	.02	$1.95	$1.75	$1.49
4691-RC	B	175	Reducer For 58U	Silver Plated Adaptor RG-58 Cable to UHF Connector	.01	$0.59	$0.55	$0.49
4692-RC	B	176	Reducer For 59U	Silver Plated Adaptor RG-59 Cable to UHF Connector	.01	$0.59	$0.55	$0.49
5438-RC	C	PL-259	58	2 Piece Crimp UHF Male Connector	.05	$1.65	$1.45	-----
5439-RC	C	PL-259	59	2 Piece Crimp UHF Male Connector	.05	$1.25	$0.99	$0.89
5442-RC	A	PL-259	58	Twist-on UHF Male Connector	.05	$1.75	$1.65	$1.55
5443-RC	A	PL-259	59	Twist-on UHF Male Connector	.05	$1.25	$1.10	$0.99
0505-RC	D	M-358	-	UHF "TEE" 2 Female-1 Male	.1	$2.45	$2.25	$1.95
0504-RC	E	M-359	-	UHF "Elbow" 1 Female-1 Male	.1	$2.00	$1.79	$1.59
0502-RC	F	PL-258	-	UHF Adaptor 2 Females	.1	$1.25	$1.10	$0.99
0503-RC	G	DM-1	-	UHF Adaptor 2 Males	.1	$2.49	$2.35	$2.25
0583-RC	H	363	-	UHF Threaded Bulkhead 2 Females	.1	$3.95	$3.75	$3.45
0501-RC	I	SO-239	-	UHF Female 4 Hole Panel Mount	.1	$1.25	$1.10	$0.99
5444-RC	J	-	-	UHF Female Single Hole Mount	.1	$1.75	$1.65	$1.55

"F" TYPE CONNECTORS & ADAPTORS

A B C D E F G H K

L M N O P Q R S T

Type "F" connectors & adaptors are used to match Antenna & Cable TV equipment to Audio/Visual Jacks on VCRs. Monitors, Switchers etc. **WT:** .01

STOCK #	FIG.	TYPE	CABLE	DESCRIPTION	1EA	10+EA
0538-RC	A	F-59	59U	Male Cable Attached 1/4 Ring	$0.20	$0.16
5450-RC	A	F-56	6U	Male Cable Attached 1/4 Ring	$0.20	$0.18
9231-RC	B	F-59	6U	Male Cable separate 1/4 Ring	$0.17	$0.16
9232-RC	B	F-59	59U	Male Cable separate 1/4 Ring	$0.17	$0.16
0563-RC	C	F-59T	59U	Male Cable Twist-on	$0.35	$0.29
5451-RC	C	F-56T	6U	Male Cable Twist-on	$0.35	$0.29
5453-RC	D		6U	Female Cable Attached 1/2 Ring	$0.89	$0.75
0588-RC	E		59U	Male Twist-on Quick Connect	$0.35	$0.29
5455-RC	F		59U	Male Quick Conn./Crimp Ring	$0.49	$0.39
0539-RC	G	F-61		Female Panel Mount with Nut	$0.49	$0.39
5454-RC	H	F-71		Male to Male In-line	$0.69	$0.55
0541-RC	K	F-81		Female to Female Bulkhead with Nut	$0.49	$0.39
6973-RC	L			Female PC Mount Rt Angle Long Thread	$0.99	$0.79
0586-RC	M			Male Quick conn. to Standard Female	$0.50	$0.39
7097-RC	N			Male to Female Right Angle Adaptor	$0.75	$0.59
0591-RC	O			Male to BNC Female Adaptor	$1.50	$1.19
0540-RC	P			Female to BNC Male Adaptor	$1.30	$0.95
0589-RC	Q			Female to RCA Jack	$1.30	$0.95
0590-RC	R			Female to RCA Plug	$0.75	$0.59
11448-RC	S			Male to RCA Jack	$1.30	$1.19
5456-RC	T			Male 75ohm Terminator 1/2W	$0.33	$0.29

BETWEEN SERIES ADAPTORS

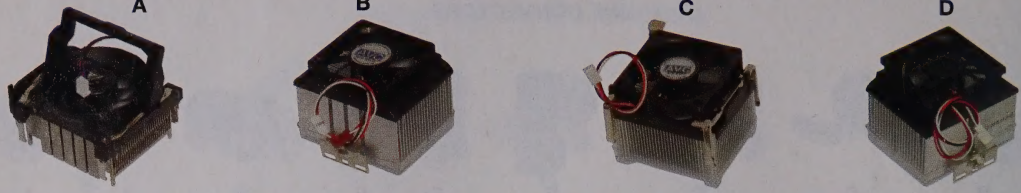
A B C D E F G H I J

K L M N O Q R

Connectors & adaptors are used to match Transceivers, Antenna, Cable TV, etc to other various equipment.

WT: .01

STOCK #	FIG.	TYPE	DESCRIPTION	1EA	10+EA
0519-RC	A	UG255	BNC Male to UHF Female	$2.50	$1.95
7296-RC	B	-	BNC Male to UHF Male	$4.95	$4.65
0518-RC	C	UG273	BNC Female to UHF Male	$1.95	$1.65
7297-RC	D	-	BNC Female to UHF Female	$2.95	$2.75
0523-RC	E	UG349	BNC Male to "N" Female	$3.95	$3.65
0521-RC	F	UG201	BNC Female to "N" Male	$2.50	$1.95
0574-RC	G	-	BNC Female to "N" Female	$4.95	$4.75
11031-PL	H	-	1/8in Male to RCA Female	$0.89	$0.79
7298-RC	I	-	BNC Male to RCA Male	$2.10	$1.69
0548-RC	J	-	BNC female to RCA Male	$1.30	$0.95
0549-RC	K	-	BNC Male to RCA Female	$1.25	$0.95
0522-RC	L	UG83	UHF Male to "N" Female	$3.95	$3.65
0520-RC	M		UG146UHF Female to "N" Male	$3.40	$2.75
0547-RC	N	-	UHF Female to RCA Male	$1.50	$0.95
0546-RC	O	-	UHF Male to RCA Female	$1.50	$0.95
0578-RC	Q	-	TNC male to BNC Female	$2.50	$1.95
15336-RC	R	-	"N" male to "F" Female	$3.25	$2.50



STOCK #	FIG.	FINISH	DISCRIPTION	DIM. L: X W: X H:	MANU./PART NUMBER	WT.	1EA	5+EA
16801-HK	A	Natural	IntelP4 Prescott Socket 478 Heatsink Assembly	3-5/8" X 2-11/16" X 1-5/16"	Delta	1	$6.95	$5.95(10+)
			Aluminum sink/massive copper base, with 80mm Rnd. 12VDC fan with stall detection, 5" leads (for Sony VAIO & PCs with Socket 478 MotherBoard					
16802-HK	B	Natural	AMDDuron/Athlon 1.4/XP Socket A Heatsink Assembly	3-1/8" X 2-1/2" X 2-1/2"	AVC	.63	$7.95	----
			Aluminum sink/copper insert, with 60mm sq. 12VDC/,15+CFM fan with stall detection, 5" leads					
16803-HK	C	Natural	Intel P4 2.8/Celeron2.4 Socket 478 Heatsink Assembly	3-1/4" X 2-11/16" X 2-11/16"	AVC	1.1	$8.95	----
			Aluminum sink/copper insert, with 70mm sq. 12VDC/,30+CFM fan with stall detection, 5" leads					
17045-HK	D	Natural	AMDDuron/Athlon XP2100/MP1200 Socket A Assembly	3-1/8" X 2-1/2" X 2-1/2"	AVC/112C80FBL03	.63	$4.95	$3.95/25
			Aluminum sink with Thermal pad. Attached 60mm sq. 12VDC/.1A 14+CFM fan with stall detection, 5" leads					

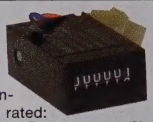
CPU LIQUID COOLING SYSTEM

MFG: SANYO DENKI
P/N: 109-LC1-003
Input: 12VDC X 2
Fan: .25A Max.
Pump: .12A
Thermal Resistance: .22K/W HI/ .255K/W lo speed (for Ref: Std. Heatsink/Fan: ~.4K/W)
Self contained, Sealed Air/liquid heat exchange CPU Cooler for Socket LGA775 P.C. motherboards provides 30%+ improvement over standard CPU fan/heatsink. System consists of Fan/Radiator/Pump assembly with Flexable plastic piping to nickel plated Copper Plate, includes metal CPU clamp.
Variable speed fan Rated 2400RPM Max @ 42db noise above 35deg. "C", 1300RPM Min. @ 28db noise below 25 deg. "C".
Radiator: Aluminum multi Fin & tube. 6-1/4" X 6-1/2" X 1/2" O/A: 6-7/8" X 7-3/4" X 3"
Cold Plate: 2-1/8" X 1-3/4"
Tubing: Fluorpolymer 8" long.
NOTE: DESIGNED TO FIT A SPECIAL TOWER CASE MAY REQUIRE MODIFICATIONS TO YOUR CASE
No Case hardware supplied

WT: 2.9

STOCK #	DESC.	1EA
17515-HK	CPU Cooler Assembly	$39.95

24VDC IMPULSE COUNTER



TAMURA E630 6 Digit, non-resettable impulse counter rated: 24VDC, 2W, 10CPS. Plastic case Base mounts 2in. leads to 4 Pin Connector. All are set to "0"

W: 1-3/16" **H:** 39/64" **D:** 2" **WT:** .1

STOCK #	DESC.	1EA
17949-MI	Tamura 24VDC Counter	$1.95

100 PSI GAUGE

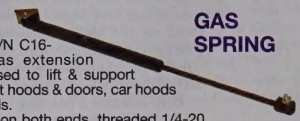
2" [Dia], 0-100 PSI/0-700kPa gauge, 1/8" NPT brass nipple. Black needle, legend on white scale. Steel case with glass face.

Dia: 2" **T:** 1-3/4" O/A **WT:** .24

STOCK #	DESC.	1EA
18315-HD	100PSI Gauge	$3.95

THOUSANDS more Items on www.mpja.com

GAS SPRING

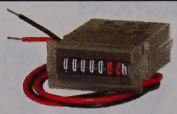


SUSPA P/N C16-09786 gas extension spring. Used to lift & support equipment hoods & doors, car hoods & trunk lids.
Ball pivot on both ends, threaded 1/4-20
Center -to-center Extended length: 19.7in.
Center -to-center Compressed length: 11.8in
Extension Force: 30lbs.

WT: .8

STOCK #	DESC.	1EA	10+EA
16694-HD	Suspa Gas Spring	$3.95	$3.50

24VDC RUNNING TIME METER



ENM T33 series low power, Non-Resetable Time meter. 7digit, crystal contolled impulse counter. Black Face with White & Red numbers, Max 99999.99 hrs. 24VDC Operation, 10mW draw. Snap-in, front mounts in 1.18" X .51 cutout. 11" leads

W: 1-1/4" **H:** 9/16" **D:** 1-7/16" **WT:** .05

STOCK #	DESC.	1EA	5EA
17906-MI	24VDC ENM Time Meter	$14.95	$12.95

DUAL WHEEL CASTER-SET

Set of 4 Faultless Plate casters, 2 with brake & 2 plane. Rated load of 100lb/caster. Twin 60mm dia. plastic wheels offer independent rotation for use on carpeting or tile. 2-1/2" square steel top plate with 2 holes.

H: 3" O/A **T:** 1 **WT:** 1.1

STOCK #	DESC.	1EA
17343-HD	Plate Caster 4 Pc. Set	$8.95

6VDC IMPULSE COUNTER

KEP P/N KE610FB, non-resettable, 6 Digit, impulse counter. Rated 5-6VDC/2V 10CPS. Plastic case with : mounting base. 9in. leads. All start below "0" (9998xx) to allow setup & testing of end equipment.

H: 2-3/8" **W:** 1-3/8" **D:** 2-1/4" O/A **WT:** .2

STOCK #	DESC.	1EA
18314-MI	6VDC KEP Counter	$2.95

24VDC IMPULSE COUNTER

HANG ZHOU P/N DJ625, non-resettable, 6 Digit, impulse counter. Rated 24VDC/.6W/10CPS. Plastic case snap-in mounts into a 1" X 17/32" cutout. 12in. leads. All have a couple of test counts on them

W: 1-1/16" **H:** 7/8" **D:** 1-3/8" **WT:** .04

STOCK #	DESC.	1EA	25+EA
16521-MI	24VDC Counter	$1.95	$1.50

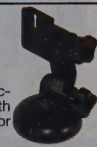
24VDC IMPULSE COUNTER

TAMURA ot 6 Digit, non-resettable 24VDC impulse counter. Plastic case snap-in mounts into a 1" X 17/32" cutout. 4in. leads. All are set around 999XXX to allow testing of equipment once installed.

W: 1-1/16" **H:** 7/8" **D:** 1-3/8" **WT:** .04

STOCK #	DESC.	1EA	5+EA
15551-MI	Tamura Counter	$3.95	$3.50

SUCTION CUP MOUNT

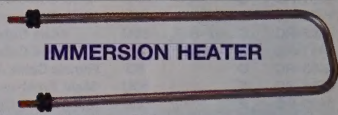


Adjustable Plastic bracket with 2-3/4" suction cup for attachment to really smooth surface like glass. Possibly holds a GPS or microphone, we're not sure.

L: 5" **WT:** .3

STOCK #	DESC.	1EA
18521-MI	Adj. Arm /Suction Cup	$3.95

IMMERSION HEATER



MFG: SPRINGFIELD WIRE
P/N: CUSTOM
POWER: 120VAC/140W
Specifications/Features:
Heater element for heating oil/water and other non-flammables. "U" shaped with 8" depth and 2-5/8" base. overall length in approx. 18". .187" quick connect terminals, 1/4" Dia. 316 stainless jacket, rubber sealing grommets at terminals.
Requires external temperature control.

H: 9" **W:** 2-3/4" **T:** 7/16" **WT:** .1

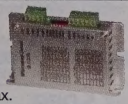
STOCK #	DESC.	1EA	10+EA
18259-MI	Stainless Heater	$5.95	$4.95

1.8° STEP MOTORS

4 corner mtg. holes, Steel Shaft, 24" leads.

STOCK #	FIG.	NEMA	VOLTS	AMPS	IND.	OHMS	HOLD TORQ.	P/ NUMBER	TYPE	DIM. (BODY) L X SQ.	SHAFT	WT.	1EA
17453-MS	A	17	52VDC	1	5.2mH	52	3.2Kg/cm	42BYGH4806	4 Phase/Uni-Polar6 lead	2" x 1-5/8"	5 X 22mm	.84	$15.95
17454-MS	B	23	24VDC	.34	90mH	71	4.4Kg/cm	57BYGH006	4 Phase/Uni-Polar6 lead	1-5/8" x 2-3/16"	6.35 X19mm	1	$17.95
17455-MS	C	23	6.2VDC	1	10mH	6.2	9Kg/cm	57BYGH213	4 Phase/Uni-Polar6 lead	2-3/8" x 2-3/16"	6.35 X19mm	1.6	$14.95
18189-MS	D	23	3.6VDC	.5	5.3mH	2.5	16Kg/cm	57BYGH303	4 Phase/Uni-Polar6 lead	3" x 2-3/16"	6.35 X25mm	2.3	$23.95
17456-MS	E	23	3.6VDC	3	2.4mH	1.2	21Kg/cm	57BYGH405A	4 Phase/Uni-Polar6 lead	3-1/4" x 2-3/16"	6.35 X19mm	2.6	$34.95
17458-MS	F	34	3.0VDC	3	4.05mH	1	23Kg/cm	85BYGH450A-04	4 Phase/Uni-Polar6 lead	3" x 3-3/8"	13 X35mm	4.7	$54.95
18190-MS	G	34	6.0VDC	2	12mH	3	48Kg/cm	85BYGH450B-03	4 Phase/Uni-Polar8 lead	4-17/32" x 3-3/8"	13 X35mm	8.1	$68.00
17457-MS	H	34	7.8VDC	2	24mH	3.9	63Kg/cm	85BYGH450C-01	4 Phase/Uni-Polar8 lead	6" x 3-3/8"	13 X35mm	11	$79.95

MINI STEPMOTOR DRIVER



P/N: QJ-215
INPUT: 12-36VDC
OUTPUT: Selectable up to 1.5A max.
STEP ANGLE: 1.8 deg (200steps/Rev.)
Microstep: 1/2-1/4-1/8-1/16-1/32-1/64
Full bridge driver for hybrid stepmotors.
Switch Selectable output current.
Over temp Protected.
Opto isolated Step pulse input (Clock input +5V Level).
Opto Isolated Direction input (+5V Level)
Opto Isolated Reset input (+5V Level)
Terminal strips in/out.
L: 3-15/16" **W:** 2-5/16" **T:** 3/4" **WT:** .5

STOCK #	DESC.	1EA
18187-MS	Mini Stepper Driver	$54.90

3A STEP MOTOR DRIVER

P/N: CW230
INPUT: 24-36VDC
OUTPUT: Selectable up to 3A max.
STEP ANGLE: 1.8 deg (200steps/Rev.)
Microstep: 1/2-1/4-1/8-1/16-1/32-1/64
Full bridge driver for hybrid stepmotors.
Switch Selectable output current.
Over temp & Output miswire Protected.
Opto isolated Step pulse input (Clock input +5V Level).
Opto Isolated Direction input (+5V Level)
Opto Isolated Reset input (+5V Level)
Terminal strips in/out.
L: 4-5/8" **W:** 2-3/4" **H:** 1-3/8" **WT:** .7

STOCK #	DESC.	1EA
17451-MS	CW230 Stepmotor Driver	$48.50

5A STEP MOTOR DRIVER

P/N: CW250
INPUT: 20-60VDC
OUTPUT: Selectable up to 5A max.
STEP ANGLE: 1.8 deg (200steps/Rev.)
Microstep: 1/8: 1600 steps/Rev.
Full bridge driver for hybrid stepmotors.
Switch Selectable output current.
Over temp & Output miswire Protected.
Opto isolated Step pulse input (Clock input +5V Level).
Opto Isolated Direction input (+5V Level)
Terminal strips in/out.
L: 5-3/4" **W:** 3-3/4" **H:** 1-3/4" **WT:** 1.5

STOCK #	DESC.	1EA
17452-MS	CW250 Stepmotor Driver	$49.95

6A STEP MOTOR DRIVER

P/N: CW260C
INPUT: 24-70VDC
OUTPUT: Selectable up to 6A max.
STEP ANGLE: 1.8 deg (200steps/Rev.)
Microstep: 1/2-1/4-1/8-1/16-1/32-1/64-1/128-1/256
1/5-1/10-1/25-1/50-1/125-1/250
Full bridge driver for hybrid stepmotors.
Switch Selectable output current.
Over temp & Output miswire Protected.
Opto isolated Step pulse input (Clock input +5V Level).
Opto Isolated Direction input (+5V Level)
Opto Isolated Reset input (+5V Level)
Terminal strips in/out.
L: 5-13/16" **W:** 3-13/16" **T:** 1-3/16" **WT:** 1.2

STOCK #	DESC.	1EA
18188-MS	CW260C Step Motor Driver	$96.00

1.8° STEP MOTOR

360° VIEW @MPJA.COM

MFG: SHINANO KENSHI
P/N: STH-39D191
COIL: 10.8VDC/57ohm
TYPE: 2 Phase Uni-Polar 5 lead
STEP ANGLE: 1.8 deg (Motor)
Assembly#: 127K94441
5mm dia. X 12mm serrated steel shaft with sleeve bearings, 4in leads. Removable 1/2" dia. 24 tooth, plastic gear driving a 39 tooth gear. Removable bracket with mtg. ears. 4 corner m3X0.5 threaded mounting holes (Motor). Includes a Omron Opto-interrupter Motor: L: 1-1/4" X 1-1/2" Sq.
L: 4-1/16" **W:** 2-3/8" **H:** 3-1/8" **WT:** .52

STOCK #	DESC.	1EA
17989-MS	Shinano 10.8V Step Motor Asb.	$3.95

1.8 DEG. STEP MOTOR

MFG: SANYO DENKI
P/N: 103-771-18
COIL : 24V/.18A
TYPE: Uni-Polar 5 lead
STEP ANGLE: 1.8 deg
Specifications/Features: Used motor with a 1/4" dia. X 3/4" steel shaft. 50oz/in Holding torque, 30oz/in. running depending on drive. 4 corner mounting holes . 7"
L: 2" (Body) **W:** 2-3/16"sq **WT:** 1.2

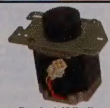
STOCK #	DESC.	1EA	10+EA
15837-MS	24VDC Step Motor	$8.95	$7.95

1.8Deg.STEP MOTOR

MFG: MINEBEA
P/N: 23KM-K102-P1V
COIL: 3A/1ohm/2.2mH
TYPE: 2 Phase Bi-Polar 4 lead
STEP ANGLE:1.8 deg
8mm dia. X 18mm steel shaft with a pressfit 13/16" dia. 18 tooth, aluminum cog belt gear. Ball bearings, 6pin connector (supplied), 4 corner mounting holes threaded M4.5
L: 2-5/8"(Body) **SQ:** 2-3/16" **WT:** 1.9

STOCK #	DESC.	1EA	16+EA
16320-MS	1.8 Minebea Step Motor	$12.95	$10.95

3V/ 1.8Deg.STEP MOTOR



MFG: SHINANO KENSHI
P/N: STP-58D4002-03
COIL: 3VDC/.42ohms
TYPE: 2 Phase Bi-Polar 4 lead
STEP ANGLE:1.8 deg
7mm dia. X 18mm steel shaft with a pressfit 1-1/2" dia. 36 tooth, sintered steel cog belt gear. Ball bearings, 3" leads, 4 corner mounting holes threaded M4.5, Removable steel mtg. bracket
L: 2-5/8"(Body) **SQ:** 2-3/16" **WT:** 2.2

STOCK #	DESC.	1EA	10+EA
17153-MS	3V SKC Step Motor	$14.95	$12.95

2.88V STEP MOTOR

MFG: SHINANO KENSHI
P/N: STH-56D309
COIL: 2.88VDC/2.4A
TYPE: 2 Phase Uni-Polar 6 lead
STEP ANGLE: 1.8 deg (Motor)
Assembly#: 127K80020
6.5mm dia. X 22mm steel shaft with a rollpinned 3/4" dia. 22 tooth, plastic cog belt gear. Ball bearings, 5in leads. Removable anti-vibration bracket with mtg. ears. 4 corner mounting holes (motor).
L: 2-1/4"(Body) **SQ:** 2-3/16" **WT:** 1.5

STOCK #	DESC.	1EA
17504-MS	Shinano 2.88V Step Motor	$12.95

1.8Deg. STEP MOTOR

MFG: SANYO DENKI
P/N: 103G770-1856
COIL: 3.5V/1.5A/2.4ohm/2.9mH
TYPE: 2 Phase Bi-Polar 6 lead
STEP ANGLE:1.8 deg
6.5mm dia. X 18mm steel shaft with a pressfit 3/4" dia. 25 tooth, plastic cog belt gear. Ball bearings, 5in leads. Removable anti-vibration bracket with mtg. ears. 4 corner mounting holes (motor).
L: 2-1/8"(Body) **SQ:** 2-3/16" **WT:** 1.3

STOCK #	DESC.	1EA	8+EA
16321-MS	1.8 Sanyo Step Motor	$9.95	$8.95

3V/ 1.8Deg.STEP MOTOR

MFG: ASTROSYN
P/N: 23KM-K213-P7V
COIL: 3VDC/1.8 ohms/2.6mH
TYPE: 2 Phase Uni-Polar, 6 lead
STEP ANGLE: 1.8 deg
1/4" [Dia.] X 1" steel shaft with press fit steel COG belt pully. Four corner mounting holes. 4" leads.
L: 1-3/4" (Body) **SQ:** 2-3/16" **WT:** 1.1

STOCK #	DESC.	1EA
17276-MS	Astrosyn 1.8Deg. Stepmotor	$10.95

5V DC STEP MOTOR WITH LEADSCREW

MFG: HSI
P/N: 20841-05-028
TYPE: 2 Phase Bi-Polar 4 lead
COIL : 5VDC/18ohms/5.5mH/.27A
LINEAR STEP: .001
Linear actuator/step motor with rotating, 9/64" (.140") Dia. X 2-5/8" steel shaft. 1-1/4" max travel.1-3/64" (1.031") mounting ctrs. 20° leads. Shaft end thread: 2-56 UNC 2A X .15" long
L: 3-1/2" O/A **W:** 1-5/16" O/A **WT:** .06

STOCK #	DESC.	1EA
17284-MS	HSI 5V Linear Actuator	$9.95

1.8DEG. STEP MOTOR

MFG: SANYO DENKI
P/N: 103H7121-0415
COIL: 2A/1.25 ohm/1.9mH
TYPE: 2 Phase Uni-Polar 6 lead
STEP ANGLE: 1.8 deg 120step/rev
6mm dia. X2 4mm serrated steel front shaft with plastic 16 tooth X 1/2" dia. worm gear (removable). 6mm X 10mm smooth back shaft. removable 3/8" thick steel/ rubber shock mounting plate with 4 corner mounting holes. 3" leads.
L: 2" (Body) **SQ:** 2-3/16" **WT:** 1.2

STOCK #	DESC.	1EA
16817-MS	1.8 Deg. Sanyo Motor	$6.95

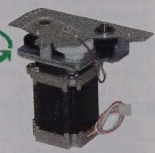
3.3V STEP MOTOR ASSEMBLY

MFG: JAPAN SERVO
P/N: KP-56LM2G-001
COIL: 3.3VDC/2.2A
TYPE: 2 Phase Uni-Polar 6 lead
STEP ANGLE:1.8 deg (Motor) .1deg. Output (18/1)
Step motor, gear box assembly with brake. Apply 24VDC to release brake (removable). Motor side 13/32"dia. X 9/ 16" steel shaft with coupling (held by roll pin), 6" leads, Removable steel mtg. bracket.
L: 4-1/2"(Body) **W:** 3-1/2" **H:** 4-1/4" **WT:** 2.6

STOCK #	DESC.	1EA	10+EA
16237-MS	Step Motor Assembly	$16.95	$15.95

MOTOR/GEAR ASSEMBLY

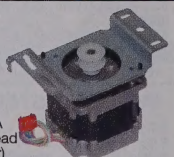
360° VIEW @MPJA.COM



MFG: SHINANO KENSHI
P/N: STP-57D505
COIL: 5.3VDC/1A
TYPE: 2 Phase Uni-Polar 5 lead
STEP ANGLE:1.8 deg (Motor)
Assembly#: 127K18074
Step motor & gear assembly for copy machine. Motor has 7mm steel shaft with a pressed on aluminum spur gear. Removable gear unit contains 5 various plastic gears, 2 have mechanical unidirectional clutch. 5in.
Motor: L: 3" **Sq.:** 2-1/4" **WT:** 2.3
Assembly: L: 4-3/4" **W:** 5-1/4" **H:** 2-7/8" **WT:** 2.9

STOCK #	DESC.	1EA
17461-MS	Stepmotor Assembly	$14.95

3.84V STEPMOTOR



MFG: SHINANO KENSHI
P/N: STP-57D211
COIL: 3.84VDC/4.7 ohms/.8A
TYPE: 2 Phase Uni-Polar 5 lead
STEP ANGLE:1.8 deg (Motor)
6.5mm dia. X 18mm steel shaft with a 3/4" dia., 16 tooth, plastic cog belt gear attached by a steel roll pin. Ball bearings, 3" leads, 4 corner mounting holes, Removable anti vibration rubber/steel mtg. bracket. 4" leads.
L: 2" Body **Sq.:** 2-3/16" **WT:** 1.5

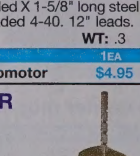
STOCK #	DESC.	1EA
17607-MS	3.84VDC Stepmotor	$9.95

24V LINEAR STEP MOTOR

MFG: EASTERN AIR DEVICES
P/N: LB11ABM-4R
COIL: 24VDC/.96A/725ohms
TYPE: 4 Phase Uni-Polar 5 lead
STEP ANGLE:15 deg(motor)
Removed fron equipment linear step motor. 1/8" dia. X 3/8" rear shaft. 4-56UNS-3A threaded X 1-5/8" long steel front shaft, 4 mounting holes threaded 4-40. 12" leads.
L: 1-7/8"Body **Dia:** 1-1/16" **WT:** .3

STOCK #	DESC.	1EA
16385-MS	EAD Linear Stepmotor	$4.95

LINEAR STEP MOTOR



MFG: SHINKOH
P/N: 23PB-H031
COIL: 12VDC/.25A
TYPE: 2 Phase Uni-Polar 6 lead
STEP ANGLE:7.5 deg(motor)
approx. .01in/step,1/2"/rev.
USED linear step motor. .25" dia. X 3-3/16" shaft. 1-7/8" long spirial "groove" cut into shaft for a travler (not supplied). 2 mtg. tabs for clamping. 3" leads.
L: 1-1/8"Body **Dia:** 2-1/2" **WT:** .65

STOCK #	DESC.	1EA
16513-MS	Linear Step Motor	$2.95

3V/1.8 Deg.STEP MOTOR

MFG: SHINANO KENSHI
P/N: STP-58D4002-02
COIL: 3VDC/.42ohms
TYPE: 2 Phase Bi-Polar 4 lead
STEP ANGLE:1.8 deg
7mm dia. X 18mm steel shaft with a pressfit 13/16" dia. 18 tooth, sintered steel cog belt gear. Ball bearings, 3" leads, 4 corner mounting holes threaded M4.5
L: 2-5/8"(Body) **SQ:** 2-3/16" **WT:** 2

STOCK #	DESC.	1EA	10+EA
16235-MS	3V SKC Step Motor	$14.95	$12.95

24V 7.5 DEG. STEP MOTOR

MFG: NPM
P/N: PFC55-48B1
COIL: 24V/14ohm
TYPE: 2 Phase Uni-Polar 6 lead
7.5 Degree step angle. 2.2mm dia. X 15mm steel shaft with a 8 tooth 1/4" dia. X .187" long brass spur gear. 2 mounting holes. 10" leads. Includes a matching pitch steel 32 tooth gear for a 7/32" shaft
Dia: 55mm(Body) 76.2 O/A **D:** 25mm (1") **WT:** .62

STOCK #	DESC.	1EA
18086-MS	24V Nippon Step Motor	$4.95

3V 1.8DEG. STEP MOTOR

MFG: SHINANO KENSHI
P/N: STP42D4009
COIL: 3V/1.6 ohm
TYPE: 2 Phase Uni-Polar 6 lead
STEP ANGLE: 1.8 deg 120step/rev
5mm dia. X 24mm steel shaft with metal 20 tooth X 11/16" dia. gear & 22 tooth X 9/16" dia. cog belt pully. 4 corner m3x0.5 mounting holes. 5" leads.
L: 1-5/8" (Body) **SQ:** 1-9/16" **WT:** .64

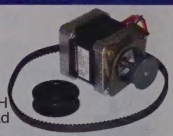
STOCK #	DESC.	1EA
16231-MS	1.8Deg. Step Motor	$7.95

1.8 DEG. STEP MOTOR

MFG: SHINANO KENSHI
P/N: STP-58D3004
COIL: .48ohm/1.6mH
TYPE: 2 Phase Uni-Polar 4 lead
Size 23, 1.8 Degree stepmotor. 1/4" dia. X 5/8" steel shaft with a 23 tooth 1" dia. steel gear. 4 mounting holes. 4" leads. Includes a matching pitch plastic 36 tooth,1-1/ 2"dia. gear for a 6mm shaft
Sq.: 55mm(Body) **L:** 54mm **WT:** 1.62

STOCK #	DESC.	1EA
18104-MS	Shinano 1.8deg. Step Motor	$9.95

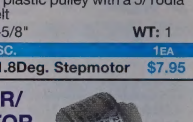
3V/ 1.8Deg. STEP MOTOR



MFG: ASTROSYN
P/N: 17PM-K406-P3V
COIL: 4VDC/2.3 ohms/4.8mH
TYPE: 2 Phase Bipolar, 4 lead
STEP ANGLE: 1.8 deg
5mm (Dia.) X 25mm (1") steel shaft with press fit steel 22 tooth .8"ia. COG belt pulley. Removable rubber vibration bracket, Four corner mounting holes. 4" leads. includes 1.2" Did, 36 tooth plastic pulley with a 5/16dia" "D" bore, & a 5° COG belt
L: 1-3/4" (Body) **SQ:** 1-5/8" **WT:** 1

STOCK #	DESC.	1EA
18229-MS	Astrosyn 1.8Deg. Stepmotor	$7.95

12V STEP MOTOR/ LINEAR ACTUATOR



MFG: SONCEBOZ
P/N: 7210
TYPE: 2 Phase Uni-Polar 6 lead
COIL : 12VDC/84ohms
LINEAR STEP: .002
Linear actuator/step motor with non-rotating, 9/64" (.140") Dia. X 5/16" steel shaft. 1/2" max travel. 21oz force. 6" leads. Not sure how these mount as there is no hardware.
L: 2" retracted **Dia:** 1 **WT:** .1

STOCK #	DESC.	1EA
18313-MS	12V Linear Actuator	$9.95

7.5 DEG. STEP MOTOR

MFG: AIRPAX
P/N: LB82715-M1
COIL: 12VDC/32ohm
TYPE: 2 Phase Uni-Polar 6 lead
7.5 Degree stepmotor with Bronze Bearings, 1/4" dia. X 5/8" steel shaft, 2 mounting holes. Holding Torq: 15 oz/ In 14" leads. Mtg. Ctrs.: 2-5/8"
Dia: 2-1/4" (Body) **D:** 1-5/8 **WT:** 1

STOCK #	DESC.	1EA
18304-MS	Airpax 7.5 deg. Step Motor	$3.95

24V 7.5 DEG. STEP MOTOR

MFG: NMB
P/N: PM35S-048
COIL: 24V/50 Ohm
TYPE: 2 Phase Uni-Polar 6 lead
7.5 Degree step angle. 800PPS, Max rate. 3mm dia. X 10mm steel shaft. 2 mounting ears. 7" leads.
Dia: 2"(Max Body) **T:** 5/8" **WT:** .15

STOCK #	DESC.	1EA
18349-MS	24V NMB Step Motor	$3.95

24V 7.5 DEG. STEP MOTOR

MFG: NMB
P/N: PM55L-048
COIL: 24V/30 Ohm
TYPE: 2 Phase Uni-Polar 5 lead
7.5 Degree step angle. 500PPS, Max rate. 4mm dia. X 10mm steel shaft with 11 tooth, 14mm dia X 7mm , brass gear. 2 mounting ears. 2" leads.
W: 3"(Max Body) **T:** 1" **WT:** .55

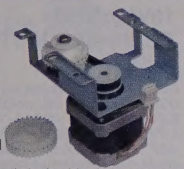
STOCK #	DESC.	1EA
18368-MS	24V NMB PM55 Step Motor	$3.95

7.5 DEG. STEP MOTOR

MFG: AIRPAX
P/N: M82201-P2SB
COIL: 12VDC/64ohm
TYPE: 2 Phase Uni-Polar 6 lead
7.5 Degree stepmotor with Bronze Bearings, 2mm dia. X 10mm steel shaft, 2 mounting holes. Holding Torq: 3.9 oz/In 7" leads. Mtg. Ctrs.: 1.65"
Dia: 1.97" (Body) **D:** 7/8 **WT:** .18

STOCK #	DESC.	1EA
18501-MS	Airpax 7.5 deg. 12 Motor	$6.95

6V/ 1.8Deg. STEP MOTOR/ GEARS



MFG: SHINANO KENSHI
P/N: STP-42D217
COIL: 6VDC/.76A/7.9ohms
TYPE: 2 Phase Bipolar, 4 lead
STEP ANGLE: 1.8 deg
5mm (Dia.) X 20mm (3/4") steel shaft with pinned plastic 21 tooth .75"id. COG belt pulley. Pully/belt drives 1", 28 tooth pully/1.25", 30 tooth spur gear/and another .57" COG Belt pully assembly on a 6mm jack shaft. Removable rubber vibration bracket, Four corner mounting holes. 4" leads. Steel frame 3-1/8" X 3-1/8" X 1-3/16" includes 1.4" Dia, 34 tooth plastic spur gear with a 5mm bore.

L: 1-9/16" (Body) **SQ:** 1-5/8" **WT:** 1

STOCK #	DESC.	1EA
18305-MS	1.8Deg. Stepmotor/Gears	$9.95

12V/ 3.75Deg. STEP MOTOR

MFG: FUJI
P/N: SMR40-4854-A
COIL: 12VDC/12 ohms
TYPE: 2 Phase Uni-Polar, 6 lead
STEP ANGLE: 3.75 deg
3mm dia. X 10mm steel shaft. 2 mounting holes. 6" leads.

L: 1" (Body) **W:** 2-1/4" (O/A) **WT:** .32

STOCK #	DESC.	1EA
18396-MS	Fuji 12V Stepmotor	$2.95

MINI PNEUMATIC PUMP

MFG: THOMAS
P/N: 11010117
Power: 12V nom@.5A
Ports: 3.9mm
Features/Specifications:
Rolling diaphragm, oilless air pump rated 3.1l/min. PAA head with EPDM valves. For use in lab equipment, blood pressure monitors, sampling inst. 3in. leads with .25" quick connect male terminals.

L: 2-3/4" O/A **Dia:** 1-1/32" **WT:** .16

STOCK #	DESC.	1EA
18517-MI	Mini Air Pump	$19.95

SINGLE ACTION SPRING LOADED CYLINDER

MFG: Bimba **PORTS:** 1/8" NPT
BORE: 1-1/2" **STROKE:** 7/8"
USED. Single action, Spring loaded extension, pressure retract. Stainless steel tube, aluminum heads, air cylinder. 200 PSI max pressure. 7/16" Dia.steel rod X 1-3/4" (extended) with 7/16-20 thread. Front mount 3/4"-16 threaded. 12 lbs to compress spring. Sorry,No Mtg. Nuts

L: 4-3/4"Body **DIA:** 1-5/8" **WT:** .8

STOCK #	DESC.	1EA	5+EA
8849-HD	Pneumatic Cylinder	$4.95	$3.95

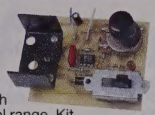
DOUBLE ACTION SHORT ROD CYLINDER

MFG: Bimba **PORTS:** 1/8" NPT
BORE: 3/4" **STROKE:** 3/4"
USED. Double action, Stainless steel tube, aluminum heads air cylinder. 200 PSI max pressure. 1/4" Dia. steel rod X 1/2" (retracted) with 1/4-28 thread. Front mount 5/8"-18 threaded. Sorry, No Mtg. Nuts

L: 4-1/2"Body **DIA:** 13/16" **WT:** .2

STOCK #	DESC.	1EA	5+EA
8851-HD	Pneumatic Cylinder	$4.95	$3.95

DC MOTOR SPEED CONTROL KIT



12V DC motor or lamp control kit. Will control any 12V DC load up to 5A. uses pulse width mod. to give 5% to 98% control range. Kit contains all parts and a 12 V DC demo motor. Ideal for DC tools, science fair projects.

L: 3" **W:** 2-3/8" **H:** 1-3/4" **WT:** .63

STOCK #	DESC.	1EA	5+EA
16925-KT	DC Speed Control Kit	$15.95	$14.95

LEAD SCREW MOTOR ASSEMB.

360° VIEW @MPJA.COM

Removed from new equipment, Motor assembly with a Buehler 1.61.046.531.00 Gear head motor driving a 110mm (4-5/16") long lead screw. 85mm (3-1/4") Max travel, 4.3mm (1-11/16")/Rev. Plastic travler with removable steel bracket. Approx. 105RPM/6VDC, 50 Slot Photo Tach. (5V powered) on rear motor shaft, steel base plate.

L: 9-3/8" O/A **W:** 6"O/A **WT:**

STOCK #	DESC.	1EA
17265-MD	Lead Screw Motor Assembly	$24.95

3 OUTPUT GEARMOTOR ASSEMBLY

115V AC gearmotor assembly with 3 output shafts: Shaft #1: 410 RPM, 6mm Dia. X 11/16 long, offset from case 9/16", CCW rotation as viewed from shaft end
Shaft #2: 195 RPM, 6mm Dia. X 13/16 long, offset from case 1/8", with flat, CCW rotation
Shaft #3: 180 RPM, 6mm Dia. X11/16 long, offset from case 1/8", with flat, CW rotation
Cast aluminum motor/gear housing with steel cover on gear case. Fan on back shaft, 10in leads.

L: 7" O/A **W** 6-1/2" O/A **H:** 6-1/4" O/A **WT:** 6.5

STOCK #	DESC.	1EA
15639-MA	3 Shaft Gearmotor Special	$4.95

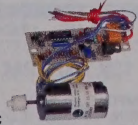
MOTOR/GEAR ASSEMBLY

MFG: BUEHLER
P/N: 1.13.022.212.04
COIL: 12-24VDC
USED DC motor assembly rated:
Approx. 104RPM @ 24V, .05A NL,1.7A Stall
51 RPM @ 12V, .04A NL, .86A Stall
Motor assembly with brass worm gear driving two plastic gears. Last gear has a 5/16" Dia. X 5/16" plastic nib. to provide recripcating action. 1/2" radius of rotation on nib. Steel mounting bracket. 3" leads.

L: 5-1/4"(O/A) **W:** 3-1/4" (O/A) **H:** 1-3/4" **WT:** .62

STOCK #	DESC.	1EA
17132-MD	51RPM/12VDC Motor	$9.95

DC MOTOR & SPEED CONTROL



MFG: BUEHLER (motor)
P/N: 13.65.054.08
Voltage: 24VDC
Current: .07NL /.9A Stall
Board: 3-1/2" X 1-3/8". 18-24VDC
Power with 5V input to control direction. 1250-1650 speed range.
Motor: L: 2-1/4" Dia: 1-1/4" with 2.5mm dia. X 16mm steel shaft with a press fit 1/2" dia. 3 start plastic worm gear. Bronze bearings, 8" motor leads, 13" board leads. 2 mounting holes on motor. **WT:** .4

STOCK #	DESC.	1EA
18591-MD	Motor with Speed Control	$7.95

21RPM 12V MOTOR

MFG: BUEHLER
P/N: 1.61.031.111.06
COIL : 12VDC
USED, 90deg. angled gearhead DC motor rated: 10/21/42RPM @ 6/12/24VDC. 300mA No Load/4.5A Stall @ 12VDC. 8mm dia. X 50mm removable/Reversable steel shaft held in place by a collet. Removable sheet metal mtg. bracket. 5" leads.

L: 6-3/8" (OA) **W:** 4-1/4" **H:** 4-1/8" **WT:** 2.8

STOCK #	DESC.	1EA
16779-MD	12V 21 RPM Buehler Motor	$24.95

"PICKER" MOTOR ASSEMBLY

USED Motor assembly with a Buehler 1.16.025.031.00 motor driving a 6 piece plastic gear train. Center driven, 6-7/8" long output shaft drives two 1-5/16"Dia. off center plastic cams attached near ends. Approx. 116 RPM @ 12VDC. 5-1/4" C/C distance on cams. We guess that it was part of a paper feed.

W: 6-7/8" O/A **L:** 3-1/2" **H:** 2-1/2" **WT:**

STOCK #	DESC.	1EA	10EA
17266-MD	"Picker" Motor Asm.	$12.95	$9.95

RECIPROCATING MOTOR ASSEMB.

Removed from new equipment, Motor assembly with a Buehler 1.61.046.520.01 Gearhead motor driving a reciprocating 4-7/8" removable plastic arm. 7/8"Stroke. 115 Strokes/Min @ 6V/ 230 @ 12V/460 @ 24V.12 Slot Photo sensor on rear motor shaft, 2 Slot Photo sensor on Cam plate. Removable steel base plate

L: 9-3/8" O/A **W:** 6"O/A **WT:** 2

STOCK #	DESC.	1EA
17264-MD	Reciprocating Motor Asmb.	$19.95

24 VDC GEARMOTOR

360° VIEW @MPJA.COM

MFG: MOLON
P/N: CHM-2435-1
Voltage: 24VDC
RPM: 45
Reversable DC gearhead motor with 5/16" dia X 5/8" long steel shaft. Mounted on shaft is 4-7/8" dia. plastic wheel with "O" ring in wheel rim for use as friction drive. 45RPM/50mA @24VDC No Load; 1A/7.5in-lb torque @ Stall. 7in. leads.

L: 2-1/2" (Body) **W:** 2-3/4" H: 3" **WT:** .9

STOCK #	DESC.	1EA	10+EA
17971-MD	24VDC Gear Motor	$9.95	$8.95

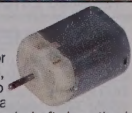
12V @ 225RPM GEARHEAD MOTOR

MFG: BUEHLER
P/N: 1.61.046.514.01
COIL: 12-24VDC
USED, Gearhead DC motor rated:
450RPM @ 24V, .08A NL,1.5A Stall
225RPM @ 12V, .06A NL, .8A Stall
5mm dia. X 13mm flatted steel shaft. 3 metric (M3) threaded mounting holes. 3" leads.

L: 2-3/4"(Body) **DIA:** 1-3/8" **WT:** .4

STOCK #	DESC.	1EA	10EA
17131-MD	225RPM/12V Motor	$14.95	$12.95

12VDC MINI MOTOR



Mabuchi FC-280PT-20150 DC motor with carbon brushes. Rated 8-16VDC, 12V nominal. 11800 RPM, 81mA no load/3.9A Stall @ 12V, Torque @ Sta 335g/cm. 2mm dia. X 10mm serrated shaft. Insertion/ Compression terminals

L: 1-3/8" (Body) **Dia:** 1" **WT:** .09

STOCK #	DESC.	1EA
18298-MD	12VDC Mabuchi Motor	$0.99

ELECTRONIC SPEED CONTROL

INPUT: 120VAC 60HZ
OUTPUT: 0-120VAC 15A max
Double insulated, and fused. Speed control for brush type AC tools & motors. 3 position switch for OFF, FULL, VARIABLE. 6ft. 16-3 power cord, std. 3 prong AC ouput socket. Not Weatherproof.
L: 5-1/2" **W:** 1-3/4" **H:** 2-1/2" **WT:** .72

STOCK #	DESC.	1EA
18327-TL	Motor Speed Control	$24.95

13.6 VDC 6100RPM MOTOR

Johnson 13.6VDC motor with Bronze sleeve bearings. Used in tools & appliances etc. 6100+RPM, .44A, no load, @ 13.6V. Max Torque: 6.1oz/in @ 13.6V/2.8A 1/8" [Dia.] X 3/4" serated steel shaft. Solder terminals. 2 mounting holes threaded M3 on front.
L: 2-5/8" (Body) **Dia:** 1-1/2" **WT:** .47

STOCK #	DESC.	1EA
17943-MD	13.6VDC Johnson Motor	$3.95

1.3V VIBRATOR MOTOR

Made by Shicoh Eng. for Ericsson cell phones. Small DC motor with removable rubber case. Solderable Gold plated slide contacts. Rated:1.3VDC @ 20mA running. 4mm dia X 22mm long motor without rubber mount.
L: 22mm O/A **W:** 8mm O/A **H:** 6mm O/A **WT:** .004

STOCK #	DESC.	1EA
16054-MD	Shicoh Vibrator Motor	$1.95

24V @ 360RPM MOTOR

MFG: BUEHLER
P/N: 1.61.046.526.03
COIL: 24VDC continuous
Gearhead DC motor rated:
360RPM @ 24V, .07A NL,1.2A Stall
170RPM @ 12V, .06A NL, .7A Stall
5mm dia. X 16mm flatted steel shaft. 3 metric (M3) threaded mounting holes. 10" leads.
L: 2-7/8"(Body) **DIA:** 1-3/8" **WT:** .4

STOCK #	DESC.	1EA
17726-MD	360RPM/24V Gearhead Motor	$9.95

24V 15DEG. STEPMOTOR

MFG: SLO-SYN
P/N: SM-024-0065-RX
COIL: 24V/9-11ohms/2.4A
TYPE: Uni-Polar 5 lead
STEP ANGLE: 15 deg
Used motor with a 1/4" dia. X 1-3/16" steel front shaft with a removable plastic COG Belt pully. 1/4"dia. X 3/4" rear shaft with a Photo interrupter/Tach assembly.
W: 5-1/2" **D:** 5-3/4" **H:** 3-1/2" **WT:** 3.5

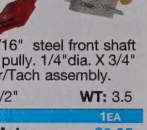
STOCK #	DESC.	1EA
17758-MS	Slo-Syn Step Motor	$9.95

2.4VDC MINI MOTOR

Mabuchi FF-N20PN DC motor rated 1.5-3.0VDC, 2.4V nominal. 15800 RPM, 96mA (no load) @ 2.4V, 1mm dia. X 4mm shaft. Ideal hobby or toy motor.
L: 5/8" **Dia:** 1/2" **WT:** .009

STOCK #	DESC.	1EA	5+EA
12798-MD	2.4VDC Mabuchi Motor	$1.49	$0.99

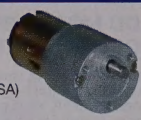
1 RPM TIMER MOTOR



MFG: BRISTOL
COIL: 120VAC 60Hz.
DUTY: Cont.
1RPM Timer motot. Output CCW as viewed from shaft end. .31" dia. 18 tooth brass gear on 3/16" long shaft. 6in. leads.
Dia: 2" **L:** 1-1/2" O/A **WT:** .27

STOCK #	DESC.	1+EA
17843-MA	120VAC 1RPM Motor	$5.95

12VDC/6.8RPM GEAR MOTOR



MFG: IGARASHI MOTORS (IGUSA)
P/N: Custom 2732-0300
COIL: 12V
Gear motor rated: 6.8 RPM @ 12VDC, 5mm (3/16") dia. X 10mm (3/8"), flatted steel shaft, bronze bearings. Three M3-.5 threaded mounting holes in front. Solder terminals
L: 2-11/16" (Body) **Dia:** 1-1/4" **WT:** .25

STOCK #	DESC.	1EA	10+EA
15870-MD	12V 6.8RPM Motor	$12.95	$9.95

12/24VDC MOTOR

MFG: BUHLER
P/N: 1.13.043.242.03
COIL : 12V/3.5ohms
USED DC motor Rated: 2300 RPM @ 12VDC NL, 4700 RPM @ 24VDC. 4mm dia. X 49mm steel front shaft. Front ball bearing, rear sleeve bearing. 3 M3 threaded mounting holes in front. 3" leads.
L: 3-1/8" (Body) **DIA:** 1-9/16" **WT:** .92

STOCK #	DESC.	1EA
17295-MD	12VDC Long Shaft Motor	$9.95

24V MOTOR & BELT DRIVE ASSEMB.

USED, Motor assembly with a 24VDC motor driving a COG belt & pulley that in turn drives Worm & gear assembly.
Approx. RPM @ 24VDC NL: Motor: 3380, Worm gear: 1650, Spur gear: 116.
Plastic gears/steel shafts, Bronze shaft & motor bearings. PC board on motor terminals with noise filters. Steel frame, 5in. wire leads with ferrite filter. Included is Spur gear without a shaft that matches output spur gear.
Motor COG Belt Pully .478":Jack Shaft COG Belt Pully: .975"
Jack Shaft: .309":Output Spur Gear: .608"
loose Spur Gear: 1.527" O/D /.320" I/D
L: 3-1/2" O/A **W:** 3-1/2"O/A **H:** 3-1/2" O/A **WT:** 1.1

STOCK #	DESC.	1EA	10EA
17294-MD	Belt Drive24V Motor	$9.95	$8.95

13.6 VDC MOTOR

Johnson 13.6VDC motor with Bronze sleeve bearings. Used in tools & appliances etc. 6290+RPM, .32A, no load, @ 13.6V. MaxTorque:6.15oz/in @ 13.6V/3.6A. 1/8" [Dia.] X 5/8" serated steel shaft. Solder terminals.
L: 2-3/8" (Body) **Dia:** 1-1/2" **WT:** .37

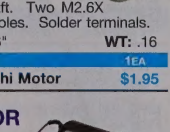
STOCK #	DESC.	1EA
17942-MD	13.6VDCJohnson Motor	$3.95

12 VDC MOTOR

MABUCHU 12VDC motor with Bronze sleeve bearings. Used in tools & appliances etc. 3300+RPM/.04A, no load/.7A Stall @ 12V. 2.3mmDia. X 14mm steel shaft. Two M2.6X 0.45 tapped Front mounting holes. Solder terminals.
L: 2-3/4" (Body) **Dia:** 1-1/16" **WT:** .16

STOCK #	DESC.	1EA
17946-MD	12VDC Mabuchi Motor	$1.95

13V 700 RPM MOTOR



MFG: BUEHLER
P/N: 1.61.046.178.01
COIL : 13VDC
Gearhead DC motor rated 700RPM @ 13V/500RPM @ 13V with 6oz/in torque load. 5mm dia. X 11mm flatted steel shaft. 3 metric (M3) threaded mounting holes. 36" leads.
L: 2-1/2" (Body) **Dia:** 1-3/8" **WT:** .4

STOCK #	DESC.	1EA
16392-MD	13V 700RPM Buehler Motor	$9.95

19V/82 RPM GEARHEAD MOTOR

MFG: PITTMAN
P/N: GM8712F191
COIL: 19.1VDC/12ohm
USED, Gearhead DC motor rated:
82RPM @ 19.1V, .08A NL,1.5A Stall
51RPM @ 12V, .07A NL, 1A Stall
.187" dia. X .625" steel shaft with a clamp-on 30 tooth steel gear. Removable mtg. plate. Three 4-40 threaded mounting holes. 4" leads.
L: 2-3/4"(Body) **DIA:** 1-3/8" **WT:** .4

STOCK #	DESC.	1EA
18609-MD	82 RPM/19V Motor	$12.95

12V 360 RPM MOTOR

MFG: BUEHLER
P/N: 1.61.046.112.00
COIL : 12-24VDC
Gearhead DC motor rated 700RPM @ 24V/360RPM @ 12V with 6oz/in torque load. 5mm dia. X 10mm flatted steel shaft. 3 metric (M3) threaded mounting holes. 3" leads.
L: 3-1/2" (Body) **Dia:** 1-3/8" **WT:** .56

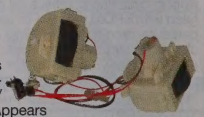
STOCK #	DESC.	1EA
16815-MD	12V-24VDC Gear Motor	$9.95

12V 40 RPM MOTOR

MFG: BUEHLER
P/N: 1.61.046.116.00
COIL : 12-24VDC
Gearhead DC motor rated 81RPM @ 24V/40RPM @ 12V 5mm dia. X 30mm steel shaft with a 20mm,16 tooth, plastic gear held by a roll pin. Removable heavy steel bracket & a non-removable cast metal secondary bracket with four 6-32 threaded mounting holes. 3" leads.
L: 3-1/2" (Body) **Dia:** 1-3/8" **WT:** .56

STOCK #	DESC.	1EA
16816-MD	12V/40RPM Gear Motor	$14.95

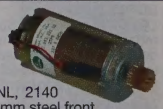
DUAL TOY MOTORS



Pair of 3-6VDC motors Mounted in plastic housings with 2-1/2" dia. X 3/4" foam rubber wheels. Appears to use 2 or more "C" or "D" cells. Wiring harness has 2 Battery contacts and a 3 position switch. In one position a diode is connected in series with the motors to reduce the voltage. Motors & housings are almost identical with the exception of one motor has a small belt drive hub.
Each: L: 3-3/8" **W:** 3-1/4" **H:** 2-3/4" **WT:** .6

STOCK #	DESC.	1EA
18310-MD	Dual Toy DC Motors	$1.95

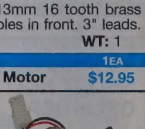
12/24VDC MOTOR



MFG: BUHLER
P/N: 1.13.043.223.12
COIL : 12V
Rated: 1100 RPM @ 12VDC NL, 2140 RPM @ 24VDC. 4mm dia. X 20mm steel front shaft with pressfit 14mm dia. X 13mm 16 tooth brass gear. 3 M3 threaded mounting holes in front. 3" leads.
L: 3-1/8" (Body) **DIA:** 1-9/16" **WT:** 1

STOCK #	DESC.	1EA
16717-MD	12/24VDC Buhler Motor	$12.95

12V 110RPM MOTOR



MFG: COPAL
P/N: LC37G-183
COIL : 12VDC
Removed from New Equipment, Gearhead DC motor rated 110RPM @ 12V/220RPM @ 24V. 6mm dia. X 27mm flatted steel shaft with metal gears. 3 corner mounting holes. 5" leads. 1-7/8" X 1-5/8" mtg. flange.
L: 2" (Body) **Dia:** 1-15/16" (Body) **WT:** .4

STOCK #	DESC.	1EA	10+EA
15530-MD	12VDC 120 RPM Motor	$16.95	$14.95

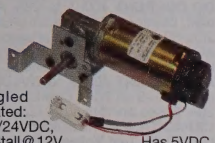
12V @ 58RPM GEARHEAD MOTOR

MFG: SAYAMA
P/N: 12SM-AT3
COIL: 12VDC
Micro Gearhead DC motor rated:
30RPM @ 6V, 9mA NL
62RPM @ 12V, 20mA NL
58RPM @ 12V, 45mA @ .25kg/cm rated torque
2mm dia. X 5.4mm flatted steel shaft with pin hole. metric (M5.5 P=0.5) threaded mounting holes. Solder terminals.

L: 1-3/8"(Body) **DIA:** 15/32" **WT:** .3

STOCK #	DESC.	1EA
17269-MD	12V Micro Gearhead Motor	$12.95

21RPM 12VDC MOTOR/TACH



MFG: BUEHLER
P/N: 1.61.031.119.00
COIL : 12VDC/
USED, 90Deg. Angled gearhead DC motor rated:
10/21/42RPM @ 6/12/24VDC,
300mA No Load/4.5A Stall @ 12V. Has 5VDC, TTL Compatable, 50Pulse/RPM Tach. mounted on rear.
8mm dia. X 50mm removable/reversable steel shaft held in place by a collet. Removable sheet metal mtg. bracket. 5" Tach leads, 8" motor leads.

L: 8-1/2" (OA) **W:** 4-1/4" **H:** 3" **WT:** 2.9

STOCK #	DESC.	1EA
17249-MD	12V 21 RPM Motor/Encoder	$36.95

25MHZ DIGITAL STORAGE SCOPE

MFG: Instek
Model: GDS-1022
Power: 100-240VAC 50/60Hz
Accessories: 2 Probes, AC Cord Manual
25MHz. dual channel digital oscilloscope with 5.6in. 320 X 234 Backlit Color LCD display(8X10 Graticule). Screen displays Waveforms, ranges, Time base, Measured Values. "Auto" mode allows display without changing rates & ranges. Features a SD card slot /USB interface. Folding handle. CE Listed
Channels: 2
Input: 3 X BNC Female (Ch-A/B &Ext Trigger)
VERTICAL:
Impedance: 1Mohm/<16pF
Bandwidth: 25MHz
Sample Rate: 100MSam/Sec Real Time /25GSs effective
Vertical Input Coupling: AC/DC/(Grounded)
Vert. Input Range: 2mV to 5V/Div. (in 1/2/5 seq.)
Max. Input: 300V DC/AC
Resolution: 8 Bit
Record Lenght: 4K Points
HORIZONTAL:
Horizontal Rate: 1nS/Div. to 10S/Div. (in 1/2/5 seq.)
Trigger Modes : Normal, Auto, 1 Shot,TV
Trig. Source: Ch. 1/Ch.2/Line/External
Trig. Level: + or -, video line, video field
Trig. Sens.: DC/AC: .5div/5mV
MEASUREMENTS/MATH:
Voltage: pp/amp/ave/rms/hi/lo
Time: freq./Period/Rise/Fall/Duty/+Width/-Width
Memory: up to 15 waveforms/settings can be stored
Recall: 2 Reference + 2 Live Waveforms on Screen.
Interface: USB 1.1/2.0 USB interface (Print/Flash not supported)
SD Card: Image (BMP) Waveform (CSV)
Setup (SET)

H: 6-9/16" **W:** 12-1/4" **D:** 5-1/2" **WT:** 5.5
Scope & Accessories Shp: **WT:** 8.2

STOCK #	DESC.	1EA
17520-TE	Instek Digital Oscilloscope	$409.00

VIEW 360 DEG. VIDEO OF THIS ITEM
360° VIEW @MPJA.COM

WIRELESS COLOR INSPECTION CAMERA

Removable Wireless LCD is Larger than most units available today

Aardvark II WITH BOTH 17mm & 9mm HEADS
2.4GHz wireless borescope with both 17 & 9 mm 3ft. flexable, weather resistant (IP-67) Color camera probe and a 3-1/2in. Recordable LCD color monitor. The Aardvark is ideal for inspecting confined spaces such as AC Vents, sink drains, motor housings, air handlers, sub floor areas, walls and much more. Wireless monitor can be removed from probe unit (up to 30ft. depending on conditions). Still pictures or video can be recorded on an included 2Gb Micro *SD* card (16Gb Max) and has outputs for connecting a larger monitor, recorder & has a USB port connecting to your computer. Includes: Padded Plastic case, AC charger/adapter, 2GB *SD* Card, video & USB cable, 3 pcs. Mirror/Hook/Magnet clip-on accessories
17mm camera: Min. hole/pipe dia. 17mm (.67")
9mm camera: Min hole/pipedia. 9.2mm
WT: 4.6

STOCK #	DESC.	1EA
18120-TE	Aardvark II Wireless Borescope	$249.00

AARDVARK ACCESSORIES

18121-TE 3ft. Flex Extension: Up to total of 5 can be used
18127-TE 15ft. Flex Extension.
NOTE: Use of extensions Require min. 19.5mm hole
18123-TE Magnetic Base for LCD Monitor
18124-TE Replcement Clip-on Mirror, Magnetic & Hook Accessories
18125-TE Replacement/Spare Supply/Charger

STOCK #	DESC.	1EA
18121-TE	3ft. Extension for Borescope	$24.95
18127-TE	15ft. Extension for Borescope	$99.00
18123-TE	Mounting Bracket for Monitor	$9.95
18124-TE	Replacement Clip-on Acces.	$7.95
18125-TE	Replacement Charger	$9.95

20MHZ ANALOG SCOPE

MFG: Instek
Model: GOS-620
Power: 115/230VAC 50/60Hz
Accessories: 2 Probes, AC Cord Manual
20MHz. dual channel Analog oscilloscope. 6in. CRT display with 8 X 10 Graticule. Folding handle. CE Listed
Channels: 2
Input: 3 X BNC Female (Ch-A/B &Ext Trigger)
VERTICAL:
Impedance: 1Mohm/<16pF
Bandwidth: 20MHz/7MHz @ X5 Mag
"Z" AXIS:
Impedance: ~47K ohm
Bandwidth: DC~2MHZ
Sens: >5Vp-p
HORIZONTAL:
Horizontal Rate: .2uS/Div. to .5S/Div.
100nS to 50mS (10X)
Vertical Input Coupling: AC/DC/(Grounded)
Vert. Input Range: 5mV to 5V/Div.
Vert. Modes: CH1/CH2/DUAL (Alt/Chop)/CH1+CH2/ CH2 Invert
TRIGGER:
Trigger Modes : Normal, Auto,TV-H, TV-V
Trig. Source: Ch1/Ch2/Alt./Line/External
Trig. Slope: + or -
Trig. Coupling: AC

H: 6" **W:** 12-1/4" **D:** 18" **WT:** 17.7
Scope & Accessories Shp: **WT:** 21.2

STOCK #	DESC.	1EA
17522-TE	Instek Analog Oscilloscope	$379.00

2MHZ FUNCTION GENERATOR

MFG: Instek
Model: GFG-8020H
Power: 100/120/220/230VAC 50/60Hz
Bench top Function generator covers .2 Hz to 2MHz in 7 switch select ranges. separate Course & Fine controls. Built in 4digit display of output frequency. Folding handle. CE Listed. Includes:AC Cord, Alligator Clip cable, Manual
OUTPUTS:
Connections: BNC-F TTL(CMOS) & BNC-F 50 ohm
Waveforms: Sine,Triangle,Square,TTL Pulse, CMOS
Switching Time: TTl: <30nS CMOS/Square : <120nS
Level: >20Vp-p Open Circuit >10Vp-p 50Ohm load
+3V Fixed TTL
4V(+-1V)-14.5V (+-.5V) Adj. CMOS
Attenuator: Selectable 20db
DC Offset: <-10V to >+10V Open/ -5Vto +5V 50 ohms
Duty Cycle: (Square & Pulse only) 1/1 (50%)-10/1 with invert function
VCF INPUT:
Connection: BNC-F
Impedance: ~10K ohms
Control: 0-10VDC for 10:1 Frequency change.
COUNTER: (Internal use only)
Display: 4 Digit LED
Resolution: 0.1Hz/1Hz/10Hz/100Hz/1KHz

H: 3-3/4" **W:** 9-1/8" **D:** 11" **WT:** 4.7
Generator & Accessories Shp: **WT:** 5.9

STOCK #	DESC.	1EA
17523-TE	Instek Function Generator	$198.00

FREQUENCY GENERATOR

360° VIEW @MPJA.COM

MFG: Instek
Model: GAG-810
Power: 120VAC 50/60Hz
Bench top Frequency generator covers 10 Hz to 1MHz in 5 switch select ranges. Top handle. CE Listed. Includes: AC Cord, 1M Alligator Clip cable, Manual
OUTPUT:
Connections: Banana Jacks
Waveforms: Selectable Sine or Square Wave
Rise/Fall Time: Square : <200nS
Level: 0-5rms 600ohms.
Attenuator: Selectable 0,-10,-20,-30,-40,-50db
SYNC INPUT:
Connection: Rear Panel Banana Jacks
Impedance: 150K ohms
Sync. Range: +-1%/Vrms
Input: Sine Wave 0-15V(DC+ACpeak)
Distortion: 500-20KHz: <0.02%
100-100kHz: <0.05%
20-500KHz: < 0.5%
10-1MHz: <1.5%

H: 8.27" **W:** 5.2" **D:** 11.5" **WT:** 6.2
Generator & Accessories Shp: **WT:** 7.3

STOCK #	DESC.	1EA
18142-TE	Instek Frequency Generator	$199.95

PROGRAMMABLE 0-40VDC @ 5A BENCH SUPPLY

MFG: Instek
Model: PSP-405
Power: 120VAC 50/60Hz
OUTPUT: 0-40VDC @ 0-5A
Resolution V: 10mV
I: 2mA
Ripple: <= 20mV RMS
<=10mA RMS
Regulation: <= 0.05% Line
<= 10mV/5mA Load
Specifications/Features: Programmable supply with back-lit LCD display, keypad, rotary digital control. Operates as Constant Voltage, Current or Power. In Constant Power Mode, Output voltage is held while Current is adj. to hold Power level. Output ON/Off control. RS232 for PC connection (Download Software from our site). Includes: Manual, Power cord, 3ft. Spade lug to Aligator clip leads

H: 3.9" **W:** 8.9" **D:** 12" **WT:** 8.8

STOCK #	DESC.	1EA
18144-PS	40V Programmable Supply	$279.00

0-60VDC RACK MOUNT SUPPLY

P/N: BTI-150
Input: 110 VAC/60Hz
Output: Three switch selectable Ranges:
0-15VDC/0-10A
0-30VDC/0-5A
0-60VDC/0-2.5A
Specifications/Features: Enclosed switching supply with dual LED displays for output Volts & Amps. Course & Fine controls for Voltage & Current Limit. 1% Line/Load Reg. <1% ripple. Front binding posts & Internal fan. Feet & brackets can be Installed/Removed as needed for Rack Stacking or bench top use
W: 19" **H:** 3-1/2" (2U) **D:** 12-1/4" **WT:** 12

STOCK #	DESC.	1EA
18650-PS	0-60V Adj. Rack Supply	$189.95

0-18VDC @ 3A BENCH SUPPLY

P/N: 9600
Input: 110 VAC 60Hz
Output: 0-18VDC @ 0-3A Constant Voltage or Current
Specifications/Features: True Constant Current (Can a short) Enclosed Linear bench supply with dual LED displays for output Volts & Amps. .01%+3mV Line / .02%+3mV Load regulation, <1mV RMS ripple. Front binding posts. Metal case & rubber feet. Internal Temp. controlled fan
L: 9-1/2" **W:** 3-5/8" **H:** 6" **WT:** 8.6

STOCK #	DESC.	1EA	5+EA
9600-PS	0-18V/3A Adj. Supply	$59.95	$52.95

0-50VDC @ 3A BENCH SUPPLY

P/N: 9602
Input: 110 VAC 60Hz
Output: 0-50VDC @ 0-3A Constant Voltage or Current
Specifications/Features: True Constant Current (Can drive a short). Enclosed Linear bench supply with dual LED displays for output Volts & Amps. .01% +3mV Line /.02%+3mV Load regulation, <1mV RMS ripple. Front binding posts. Internal Temp. controlled fan.
L: 11-1/4" **W:** 5-3/16" **H:** 6-1/4" **WT:** 14

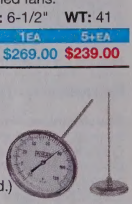
STOCK #	DESC.	1EA
9612-PS	0-50V/3A Adj. Supply	$99.00

0-30VDC @ 19A BENCH SUPPLY

P/N: 9950
Input: 110 VAC 60Hz
Output: 0-30VDC @ 0-19A Constant Voltage or Current
Specifications/Features: True Constant Current (Can drive a short). Enclosed Linear bench supply with dual LED displays for output Volts & Amps. .01% +3mV Line /.05%+3mV Load regulation, <1.5mV RMS ripple. Front binding posts. Internal Temp. controlled fans.
L: 11-1/4" **W:** 10-1/2" **H:** 6-1/2" **WT:** 41

STOCK #	DESC.	1EA	5+EA
9950-PS	0-30V/19A Adj. Supply	$269.00	$239.00

GIANT THERMOMETER



MFG: WIKA
P/N: TI.50 series
RANGE: -20 to +120° F (2deg. Subd.)
Material: 304 Stainless
Features: 5in. Dia. Bi-metalic tank thermometer with 12in. Stem & 1/2" NPT fitting. 1% accuracy.
L: 13" **WT:** 1.12

STOCK #	DESC.	1EA
18528-MI	Giant Thermometer	$19.95

I/R SMALL SPOT THERMOMETER

Highly advanced, Close focus, non-contact, I/R temperature meter. Featuring bright Class II Dual lasers "Spot-On" aiming for accurate measurements. Measure the temperature of components, skin and other close surfaces as small as .1in. with pinpoint accuracy
MFG: ZYTEMP
P/N: TN01U
Range: Temp: -55 "C" to +220 "C"
-67 to 428 "F"
Features:
* Large Multi-function Backlit LCD display
* Selectable degree F or C readout
* Digit Temp. readout
* Min/Max measurements
* Stopwatch
* Realtime Clock

Specifications:
Focus: 18mm (.7")
Measurement Spot Size: 2.5mm (.1") @ .7in.
Emissivity: Adj. 0.05-1.00 factory Preset at .95
Accuracy: +-2%/+-2Deg. Whichever is greater
Display Resolution: 0.1 "C" (.1 < 199.9 /1>200)
Response Time: 1Sec.
Power: 2 "AAA" Cells (Approx. 18hr. continious use)
L: 6-3/4" **W:** 1-1/2" **T:** 1" **WT:** .3 **Shp. WT:** .51

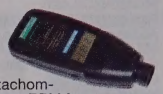
STOCK #	DESC.	1EA
17782-TL	I/R Temperature Meter	$79.95

INFRARED THERMOMETER

Pistol grip type, Non-contact infrared digital thermometer with LASER pointer and Auto Hold, Auto Turn Off, selectable "F" or "C" display, max-min & Ave. Includes soft sided woven case. CE listed.
Display: 3-1/2 digit Backlit LCD
Detection Range: 8-14um
Range: -4 "F" to +999 "F" (-20 "C" to 537 "C")
Selectable "F" or "C"
Accuracy: -20 "C" ~ 50 "C": +- 2.5 deg. "C"
51"C" ~537 "C": +- 1% of reading +1 deg.
Resolution: .1Deg.
Sample Rate: approx.] 1/Sec while holding Trigger
single shot per trigger pull
Distance Factor: 12/1 (at 12" spot size is 1")
Emissivity Factor: fixed @ .95
Power: 9 VDC battery
L: 6-3/8" **W:** 2-1/4" **H:** 7-1/2" O/A **WT:** .7

STOCK #	DESC.	1EA
16710-TE	Non-Contact I/R Thermometer	$59.95

PHOTO TACHOMETER



Hand held photo reflective tachometer. 5 digit LCD display measures RPM from 5-99,999 with auto range select. Resolution: .1RPM <1000, 1RPM/above 1000. Features Hi/Lo/ Last reading memory. Powered by 4 "AA" cells or included 120VAC adapter. Requires reflective area on a non reflective surface.
WT: 1.52

STOCK #	DESC.	1EA
15161-TE	PHOTO Tachometer	$39.00

LASER TACHOMETER

Hand held photoreflective tachometer uses LASER beam. 5 digit LCD display measures RPM from 2.5-99,999. Resolution: .1RPM /2.5-999, 1RPM/above 1000. Features Hi/Lo/ Last reading memory. Powered by 4 "AA" cells or included 120VAC adapter. Requires reflective area on a non reflective surface.
WT: 1.52

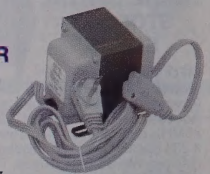
STOCK #	DESC.	1EA
15160-TE	LASER Tachometer	$39.95

AUTORANGE DMM RS232 INTERFACE

Quality 3-3/4 digit (3999 count) DMM with 1" char. ht. Connects to your PC port & software provides data capture, tracking & printing. Autoranging or manual, Data Hold, AC & DC voltage/ Current, frequency to 300KHz, Capacitance, Resistance, 40M Ohm, Fused input. Includes Test leads, Black Boot, RS232 cable & Software. Requires: Pent. 90MHz or better, Win95 above, 16M RAM, 20M Hard drive space, Floppy Drive. **Batteries not Included**
DC VOLTS: 4V to 1KV, Accuracy .5% +3 LS digit (0.8%+3 on 1000), Impedance 10 Mohm
DC CURRENT 400uA to 20A, Accuracy 1.2% + 5 LS digit, Overload .8A Fuse on uA,mA/20A
20A: 30sec on/15min off. Fused @ 20A
AC VOLTS .4V to 750V, Accuracy 0.8% +8 LS digit, Impedance10M ohm, Overload 750VRMS
AC CURRENT 400uA to 20A, Accuracy 1.2% + 10LS digit (3%+5 on 20A), Overload fuse.
20A: 30sec on/15min off. Fused @ 20A
CAPACITANCE 4nF to 40uF, Accuracy 5% + 25 LS digit (2% 40uF), Test Voltage .45V, Overload 1000Vp
RESISTANCE 400 to 40M Ohm, Accuracy 1.5% + 5LS digit, (5% 40M Ohm)
FREQUENCY 10Hz-300KHz, Accuracy .5% + 3 LS digit,
OTHER Continunity buzzer <20Ohm, Diode/Transistor: 2.8V Test
Transistor HFE @ 10uA
T: 7-3/4" **W:** 3-1/4" **D:** 1-1/2" **WT:** 1.3

STOCK #	DESC.	1EA
16374-TE	Lge. Char. DMM/RS-232	$49.95

STEPDOWN TRANSFORMER



MFG: STANCOR
P/N: GSID150
Input: 230 VAC 50/60Hz
Output: 115VAC @ 1.3A (150W)
Specifications/Features: Step down Isolation transformer with grounded core shield. 5-1/2ft. input cord with 230V NEMA 6-15P molded plug, 8in. output cord with Std. 115V NEMA 5-15R molded receptacle. Ground pass through.
L: 4-3/16" **H:** 3-7/8" **W:** 3-3/16" **WT:** 7.6

STOCK #	DESC.	1EA
18679-PS	Stancor Stepdown Transformer	$29.95

CLAMP-ON DIGITAL AMMETER/MULTIMETER

Clamp-on digital Ammeter/multi-meter with 3-1/2 digit LCD display. Features Data Hold, 2" Jaw opening, 2" clamp diameter closed for large conductors or buss bars. Impact plastic case. With test leads, wrist lanyard, storage pouch & instructions. Note: Meter designed for reading AC/ DC lines not low level uses. Not auto-ranging
AC CURRENT: 200,1000, Accuracy +-2% +-5LSD, Frequency 50-60Hz, Overload 1200A 1min.
AC VOLTS 750V, Accuracy +-1.0% +- 4LSD, Overload 750V AC/DC
DC VOLTS 1000 Volts, Accuracy +-.5% +- 1LS, Impedance 9M ohms
RESISTANCE
Ranges: 200, 20Kohms
Accuracy: +-1% +-3LSD @ 200
+-1% +-1LSD@ 20K
CONTINUITY TEST: (200ohm Range)
BUZZER < 30 +-20 ohms
H: 9-1/4" **W:** 3-1/2" **T:** 1-3/4" **WT:** .9

STOCK #	DESC.	1EA
11469-TE	Digital Amp Meter	$9.95

TRUE RMS AUTORANGE DMM

Quality 3-7/8 digit (6000 count) DMM with .8" char. ht. LCD display. Autoranging with Max/Min, Data Hold, AC & DC voltage/Current, frequency to 600KHz, Capacitance, Resistance to 60M Ohm, Fused input. Includes Test leads. **Batteries not Included**
DC VOLTS 6V to 1KV, Accuracy .3% +3 LS digit/.8%+4 on 1KV. Impedance 10 Mohm
DC CURRENT 600uA to 20A, Accuracy .8% + 5 LS digit/ 1.2% +5 on 10A. Overload .8A Fuse on uA,mA 20A: 15sec/30min off. Fused @ 15A
AC VOLTS 6V to 750V, Accuracy 1% +8 LS digit, Impedance10M ohm, Overload 750VRMS
AC CURRENT 600uA to 20A, Accuracy 1.2% + 8LS digit 2% +8 on 10A,
20A: 15sec/30min off. Fused @ 15A
CAPACITANCE 60nF to 100uF, Accuracy 10% + 25 LS digit, 2.5% +10 on 100uF,
RESISTANCE 600 to 60M Ohm, Accuracy .5% + 5LS digit, 2% + 10 on 60M Ohm.
FREQUENCY 11Hz-600KHz, Accuracy .2% + 3 LS digit,
OTHER Continunity buzzer <40Ohm,

T: 7-3/8" **W:** 3-5/8" **D:** 1-3/4" **WT:** .8

STOCK #	DESC.	1EA
16375-TE	True RMS DMM	$89.00

AUTO RANGING DVM

Large .8" Character, 3-3/4 digit with bargraph LCD digital multimeter. With test leads, temperature probe, holster & instructions. Fuse & Diode protected

SPECIFICATIONS
DC VOLTS .3 to 1KV
DC CURRENT 300uA to 300mA, 20A (unfused) Impedance 10 Megohms
AC VOLTS 3 to 750V
AC CURRENT 300ua to 300mA, 20A (unfused)
RESISTANCE 300 to 30M
OTHER FEATURES Continunity Sounds when resistance is < 30 Ohms, DiodeTest current of 1.5mA max, Hfe 2.8Vce Ib=10ua, Temperature 1800 deg F +- 5% + 6 LS Digit, Battery 2 "AAA" not included.
For more information please visit our website

T: 7-1/2" **W:** 3-1/2" **D:** 1-3/4" **WT:** 1.1

STOCK #	DESC.	1EA	5+EA
9903-TE	Autorange DMM	$29.95	$27.95

MANUAL RANGE BACKLIT DMM

Manual Range setting, Quality 3-3/4 digit (4000 count) DMM with .8" char. ht. backlighted LCD display. Data Hold, AC & DC voltage/Current, frequency to 300KHz, Resistance to 40M Ohm, Fused input. Includes Test leads.
Batteries not Included
DC VOLTS .4V to 1KV, Accuracy .5% +3 LS digit, .8% +3 on 1KV. Impedance 10 Mohm
DC CURRENT 400uA to 10A, Accuracy .5% + 3 LS digit/ .8% on .4A/ 1.2% on 10A. Overload .5A Fuse on uA,mA. 10A: 15sec on/30min off. Fused @ 10A
AC VOLTS 4V to 750V, Accuracy 0.5% +3 LS digit, .8% + 3 on 750, Impedance10M ohm, Overload 750VRMS
AC CURRENT 400uA to 10A, Accuracy .5% + 3LS digit .8% +3 on .4A, 1.2%+5 on 10A, Overload fuse. 10A: 15sec on/30min off. Fused @ 10A
RESISTANCE 400 to 40M Ohm, Accuracy .5% + 5LS digit, 1% + 3 on 40M Ohm.
FREQUENCY 10Hz-300KHz, Accuracy 1.8% + 5 LS digit, Sensitivity: .8-400V
OTHER Continunity buzzer <30Ohm, Diode/Transistor HFE

T: 7-3/8" **W:** 3-5/8" **D:** 1-3/4" **WT:** .8

STOCK #	DESC.	1EA
16372-TE	Manual Backlit DMM	$29.95

BACKLIT DMM

3-1/2 digit, 15mm (.6") char. Ht. LCD digital multimeter. Features HOLD Button, backlight button (~5sec. on). With 9V battery, test leads & instructions. Fuse & Diode protected (not 10A range). Yellow protective Boot. CE listed. Cat 2 use.
Not Auto Turnoff
DC VOLTS 200mV,2,20,200,600, Accuracy .8% + 2 LS digit
DC CURRENT 200uA,2,20,200mA, 10A, Accuracy1.5% + 2 LS digit, 250V on 200mV 600V Max
AC VOLTS 200,600V, Accuracy 1.2% + 10 LS digit, 40-400Hz. Ave. Responding, 600V RMS/DC Max
RESISTANCE 200,2K,20K,200K,2M Ohm, Accuracy 1% + 2 LS Digit, 250V RMS Max
DIODE & TRANSISTOR TEST
Diode Displays forward drop
hFE 0-1000 Ib =10ua/Vce=3V

H: 5-3/4" **W:** 3" **D:** 1-1/4" **WT:** .8

STOCK #	DESC.	1EA
14213-TE	Mini Deluxe Backlit DMM	$14.95

BACKLIT AUTORANGE DMM

Quality 3-3/4 digit (4000 count) DMM with .8" char. ht. backlighted LCD display. Autoranging and Range & Data Hold, AC & DC voltage/Current, frequency to 400KHz, Capacitance, Resistance to 40M Ohm, Fused input. Includes Test leads, **9V Battery not Included**
DC VOLTS: .4V to 1KV, Accuracy .8% +5 LS digit Impedance 10 Mohm
DC CURRENT 400uA to 20A, Accuracy 1.2% + 5 LS digit/1.8% on 4A/ 2% on 10A. Overload .5A Fuse on uA,mA.
20A: 15sec on/30min off. Fused @ 20A
AC VOLTS 4V to 750V, Accuracy 0.8% +8 LS digit, Impedance10M ohm, Overload 750VRMS
AC CURRENT 400uA to 10A, Accuracy 1.2% + 8LS digit 2.5% +5 on 4A, 3%+5 on 10A, Overload fuse.
20A: 15sec on/30min off. Fused @ 20A
CAPACITANCE 4nF to 100uF, Accuracy 6% + 6 LS digit on 40nF, 2% +5 on others
RESISTANCE 400 to 40M Ohm, Accuracy .8% + 5LS digit, 1.2% + 10 on 40M Ohm.
FREQUENCY 10Hz-400KHz, Accuracy .2% + 3 LS digit,
OTHER Continunity buzzer <20Ohm, Diode/Transistor tests

T: 7-3/8" **W:** 3-5/8" **D:** 1-3/4" **WT:** .8

STOCK #	DESC.	1EA
16373-TE	Lge. Char. Backlit DMM	$34.95

LARGE CHARACTER MULTIMETER

1in.Character Hight, 3-1/2 digit LCD digital multimeter. With 9V battery, test leads & instructions. CE Listed
SPECIFICATIONS
DC VOLTS & CURRENT
Ranges: Volts: 200m,2,20,200,1KV
Accuracy: .5% +- 3 LS digit
Overload: 200V ACrms for 200mV
1KV/750RMS for all other
Current: 200ua,2,20,200mA,10A
Accuracy: 1% +- 3 LS digit (2%/10A)
Overload: 500mA Fuse/ Unfused 10A
AC VOLTS
Ranges: Volts: 200,750V
Accuracy: 1.2% +- 10 LS digit
Overload: 1KV/750RMS for all other
RESISTANCE
Ranges: 200,2K,20K,200K,2M
Accuracy: <200: 1% +-10 LS Digit
> 200: 1% +-2 LS Digit
Overload: 200V AC/DC15Sec. Max.
DIODE & TRANSISTOR TEST:
2.8VDC Test V
10uA Base drive hFE

H: 5" **W:** 2-3/4" **T:** 1-1/4" **WT:** 1.2

STOCK #	DESC.	1EA	100+EA
17191-TE	Lg. Char. DMM	$5.95	$4.95

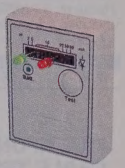
AUTO RANGE TRUE RMS DMM

UL Listed, Auto Ranging, Quality 3-3/4 digit (4000 count) DMM with .8" char. ht. LCD display. Data & Range Hold, AC & DC voltage/Current, Frequency, Resistance, Temerature, Capactance, Fused input. Includes Test leads & Temp. probe
Batteries not Included (2 X AA)
DC VOLTS .4V to 1KV, Accuracy .8% +1 LS digit, Impedance 10 Mohm
DC CURRENT 400uA to 20A, Accuracy 1.2% + 5 LS digit, 2% +5LS digit on 20A. Overload .5A Fuse on uA,mA. 20A: 15sec on/30min off. Fused @ 20A
AC VOLTS 4V to 750V, Accuracy 0.8% +8 LS digit, Impedance 10 Mohm
AC CURRENT 400uA to 20A, Accuracy 1.2% + 8LS digit, 3%+5 LS digit on 20A, Overload fuse. 20A: 15sec on/30min off. Fused @ 20A
RESISTANCE 400 to 40M Ohm, Accuracy .8% + 5LS digit, 1.2% + 10LS digit on 40M Ohm.
CAPACITANCE 4nF-100uF, Accuracy 6%+6 LS digit on 40nF, 2% +5 LS digit other ranges
FREQUENCY 4Hz-400KHz, Accuracy .1% + 3 LS digit, 250V max
DUTY CYCLE 0.1%~99.9%, Accuracy1.2% + 2 LS digit, Pulse Width: 100uS~100mS
TEMPERATURE
C: -20~ 300deg Accuracy 3deg. C + 3 LS digit
F: -4~ 572deg Accuracy 3deg. F +6 LS digit
OTHER Continunity buzzer <20Ohm, Diode/Transistor HFE

T: 7-1/4" **W:** 3-3/8" **D:** 1-3/4" **WT:** 1.1

STOCK #	DESC.	1EA
17350-TE	Auto True RMS DMM	$59.00

LED TESTER



Compact, pocket sized checker/comparator for LEDs. 12 position test socket strip provides tes currents of 2,5,10,20,30 & 50mA. 7 center positions provide 10mA test current allowing you to compare several LED at the same time. Requires 9V battery (not supplied)

H: 3-1/8" **W:** 2-3/8" **T:** 7/8" **WT:** .1

STOCK #	DESC.	1EA	5+EA
14371-TE	LED Tester	$6.95	$5.95

DIGITAL MULTIMETER

Light weight 3-1/2" digit hand held meter with LCD display. With battery, test leads & instructions. Fuse & Diode Overload protection. 10A Unfused) 9V Powered

SPECIFICATIONS
DC VOLTS & CURRENT
Range Volts:
.2,2,20,200,1KV
Current: 200ua,2,20,200mA,10A
AC VOLTS
Ranges Volts: 200,750V
RESISTANCE
Ranges: 200-2K-20K-200K-2M
Test V: 2.8 VDC open cir.
MISCELLANEOUS
Diode Test: ~1.5mA
Transistor Test: Test I =~10uA Vce=~2.8V
Accuracy: 2% worst case (10A range)

H: 5" **W:** 2-5/8" **T:** 1" **WT:** .9

STOCK #	DESC.	1EA
17892-TE	Lightweight 3.5 Digit DMM	$6.95

3M TALKING LAN TESTER

MFG: 3M CORP.
P/N: DT-1000
Talking tester checks for shorts, opens in 1,2 & 4 pair cables as well as 50/75 ohm coax cables. Top panel RJ-jacks accepts 4/6/8 pin MOD connectors. 2 "F" connectors in end for Coax cables. Unit responds to test button with "OPEN" "SHORT", or "GOOD" Red & Green LEDs for cross wired cables. Requires 9V battery (not Included) Protective rubber overcase. UL/canada/usa listed.
L: 4-5/8" **W:** 2-3/4" **D:** 13/16" **WT:** .6

STOCK #	DESC.	1EA
16731-TL	3M Talking LAN Tester	$9.95

CABLE TRACER

Two part cable tracer with 2 test leads & a 4 conductor MOD cable. Tone generator sends signal into cable that can be traced by probe. Generator features: color LED for Phone line polarity, continunity and voltage testing. 30in Red, Black leads, 12in Phone cable, Mode switch. Probe features: Non-conductive, inductive tip, Adj. volume level, Probe works with most existing tone generators. Both use 9V batteries. Includes zippered cloth carry pouch.
WT: .52

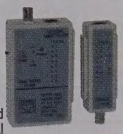
STOCK #	DESC.	1EA
6812-TE	Wire/Cable Tracer	$19.95

FIBER OPTIC TESTER

2 piece unit allows testing of installed lines.
Receiver displays signal level.
Test Wavelength: 1300nM.
Fiber Core: 62.5/125uM (Multimode)
Range: -20~-40dbm also " HI" &" LO" when outside range
Termination: ST Female
Requires 9V battery for each unit (Not Supplied).
Includes zippered cloth case.
L: 4-1/2" **W:** 2-1/2" **T:** 1" **WT:** .5 (Pair)

STOCK #	DESC.	1EA
6820-TE	Fiber Optic Test Set	$120.00

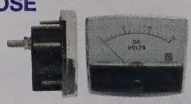
MULTIFUNCTION CABLE TESTER



2 piece unit allows testing of installed lines. Tests RJ-45/4-Pair or Coaxial cables. Instant diagnosis for opens, shorts, miswires, split pairs etc. LEDS indicate status as well as actual pin-pin connections. 9V battery powered. Includes zippered cloth case.
WT: .6

STOCK #	DESC.	1EA	5+EA
15036-TE	Multi Cable Tester	$9.95	$8.95

GENERAL PURPOSE VOLT & AMP METERS

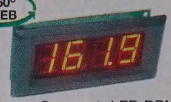


Quality general use panel meters. Accuracy: 2-1/2%. Black legends on white face. Plastic case with "zero" adjustment. Front mounts in 1.772" (45mm) hole. Two mounting screws on diaognal.
W: 2-3/4" **H:** 2-1/4" **D:** 1-7/8" **WT:** .2

STOCK #	DESC.	1EA
17251-ME	0-50uA DC Ammeter	$7.95
17254-ME	0-15A DC Ammeter	$7.95
16557-ME	0-150VAC Voltmeter	$7.95
17255-ME	0-3A AC Ammeter	$7.95
16558-ME	0-15AAC Ammeter	$12.95

MINI LED PANEL METER CX102

360° WEB

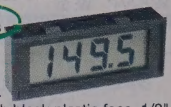


3-1/2 Digit, 200.0mV DC input, . Compact, LED DPM with black plastic face. 1/2" character height, adj. decimal point, auto polarity, >10Mohm input imp. 2 readings/sec., .05% accuracy. Snap-in panel mounting. Gold plated pins on .10" spacing.
RECOMMEND YOU PURCHASE SCALE BOARD 12209-ME Scaling board for 20V,200V & 500V.Plugs on back. MUST BE ORDERED SEPARATELY
5 VDC powered, Meter power and Input can share a common Ground (-input/-Power)
W: 2-7/16" **H:** 1" **D:** 1-13/16" **WT:** .07

STOCK #	DESC.	1EA	10+EA
12208-ME	Mini 5VLED Panel Meter	$14.95	$10.49

MINI LCD PANEL METER CX101

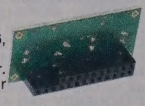
360° WEB



3-1/2 Digit, 200.0mV DC input. Compact, LCD DPM with black plastic face. 1/2" character height, adj. decimal point, auto polarity, >10Mohm input imp. 2 readings/sec., .05% accuracy. Snap-in panel mounting. Gold plated pins on .10" spacing.
RECOMMEND YOU PURCHASE SCALE BOARD 12209-ME Scaling board for 20V,200V & 500V.Plugs on back. MUST BE ORDERED SEPARATELY
Meter power:
12205 & 12206 must be isolated from Signal input (Cannot monitor own power source).
W: 2-7/16" **H:** 1" **D:** 1-13/16" **WT:** .07

STOCK #	DESC.	1EA	10+EA
12206-ME	Mini 5VLCD Panel Meter	$13.50	$10.90
12205-ME	Mini 9VLCD Panel Meter	$13.50	$10.90

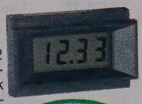
DPM SCALE BOARD



SCALE BOARD FOR 12205, 12206, 12207, 12208 DPM'S
Scale board plugs on back of meter. Includes scaling resistors for 20V,200V & 500V ranges.
WT: .1

STOCK #	DESC.	1EA	10+EA
12209-ME	DPM Scale Board	$4.50	$4.20

MULTI FUNCTION PANEL METER

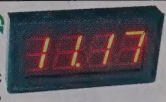


Compact, Auto polarity, 3-1/2 Digit, 1/2" character height, reflective LCD panel meter with black plastic bezel & face plate. Adj. decimal point, .8% accuracy (1% AC). >100Mohm input imp.Chip On Board design for economy & compactness. For battery powered monitoring or test equipment.
360° VIEW @MPJA.COM
RANGES: (jumper selected)
ADC: 200mA VAC: 200V/500V
VDC: 200mV/2V/20V/200V/500V
Selectable Power: 9VDC (Isolated power) or 5VDC (input & power can share common Ground)
W: 2-5/8" **H:** 1-3/4" **D:** 3/8" **WT:** .1

STOCK #	DESC.	1EA	15+EA
16177-ME	Multi.LCD Panel Meter	$8.95	$8.40

LARGE DIGIT PANEL METERS

360° WEB



3-1/2 digit, LED, 200.0mV DC basic input, .8" character height, DPMs with black plastic face. adj. decimal point, auto polarity, >100Mohm input imp. 2 readings/sec., 0.5% accuracy. Snap-in panel mounting.
Built in scaling resistors for 20V, 200V & 500V ranges
5 VDC powered, Meter power and Input can share a common Ground (-input/-Power)
W: 3-3/8" **H:** 1-5/8" **D:** 1" O/A **WT:** .13

STOCK #	DESC.	1EA	10+EA
12308-ME	5V LED Panel Meter	$12.95	$11.95

BACKLIT LCD METER

Compact,200mV input, Auto polarity, 3-1/2 Digit, 1/2" character height, Back lit LCD panel meter with black plastic bezel & face plate. Adj. decimal point, .5% accuracy. >100Mohm input imp.Chip On Board design for economy & compactness. For battery powered monitoring or test equipment.Through panel mounting.
9 VDC powered, Meter power must be isolated from input (Cannot monitor own power source).
AVAILABLE: Scaling Resistors for you to install.
20.0 VDC Resistor set **12073-RS**
200 VDC Resistor set **12074-RS**
W: 2-3/4" **H:** 1-3/4" **D:** 1-1/8" (Inc. Bezel) **WT:** .13

STOCK #	DESC.	1EA	10+EA
11273-ME	9V BackLit Panel Meter	$12.95	$11.95
12073-RS	20V Resistors	$1.00	$0.90
12074-RS	200V Resistors	$1.00	$0.90

LCD PANEL THERMOMETER

Compact LCD panel temperature meter. Range -50 to +119.9 Deg. °F. 12mm character height. 4ft cord connects display to the temperature probe. Requires 1 "LR1130" button cell. (Not included). 4 corner mtg. holes.
L: 2-3/8" **H:** 1-3/16" **T:** 5/16" **WT:** .07

STOCK #	DESC.	1EA
16370-ME	LCD Temp. Panel Meter	$3.95

SNAP-IN LCD PANEL METER PM438

Compact, Snap-In, 200mV 3-1/2 Digit, reflective LCD Digital panel meter with black plastic bezel & face plate. New Chip On Board design for economy as well as compactness. Ideal for battery powered monitoring or test equipment.
Basic meter features:
1/2" character height
Auto polarity
2 readings/sec.,
Adj. decimal point
>100Mohm input imp.
.5% accuracy.
Snap-In Through front of panel
9 VDC powered, Meter power must be isolated from input (Cannot monitor own power source).
W: 2-5/8" **H:** 1-9/16" **D:** 3/4" **WT:** .1

STOCK #	DESC.	1EA	10+EA
15978-ME	9V Snap-In LCD DPM	$9.95	$8.95
12073-RS	20V Resistors	$1.00	$0.90
12074-RS	200V Resistors	$1.00	$0.90

LCD PANEL METERS

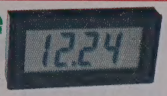
360° WEB

200mVDC Compact, 3-1/2 Digit, reflective LCD Digital panel meter with black plastic bezel & face plate. Chip On Board design for economy as well as compactness. Ideal for battery powered monitoring or test equipment.
Basic meter features:
1/2" character height
Auto polarity
2 readings/sec.,
Adj. decimal point
>100Mohm input imp.
.5% accuracy.
Through panel mounting.
9 VDC powered, Meter power must be isolated from input (Cannot monitor own power source).
5 VDC powered, Meter power and Input can share a common Ground (-input/-Power)
AVAILABLE: Scaling Resistors for you to install.
20.0 VDC Resistor set **12073-RS**
200 VDC Resistor set **12074-RS**
W: 2-5/8" **H:** 1-3/4" **D:** 3/8" **WT:** .1

STOCK #	DESC.	1EA	25EA	100+EA
6929-ME	9V LCD DPM	$7.95	$6.40	$5.95
15977-ME	5V LCD DPM	$10.95	$9.95	$8.95
12073-RS	20V Resistors	$1.00	$0.80	$0.70
12074-RS	200V Resistors	$1.00	$0.80	$0.70

LARGE DIGIT PANEL METERS

360° WEB



3-1/2 digit, LCD, 200.0mV DC basic input, .8" character height, DPMs with black plastic face. adj. decimal point, auto polarity, >100Mohm input imp. 2 readings/sec., 0.5% accuracy. Snap-in panel mounting.
Built in scaling resistors for 20V, 200V & 500V ranges
9 VDC powered. Meter power must be isolated from input (Cannot monitor own power source).
5 VDC powered. Meter power and Input can share a common Ground (-input/-Power)
W: 3-3/8" **H:** 1-5/8" **D:** 1" O/A **WT:** .13

STOCK #	DESC.	1EA	10+EA
12305-ME	9V LCD Panel Meter	$9.95	$9.49
12306-ME	5V LCD Panel Meter	$9.95	$9.49

4-1/2 DIGIT PANEL METER

200.00mV DC input, Compact 4-1/2 Digit LCD DPM with black plastic face. 3/8" character height, adj. decimal point, auto polarity, >100Mohm input imp. 2 readings/sec, 0.05% accuracy. Through panel mounting. Holes on board to add scale resistors. 9V powered, Meter power must be isolated from input (Cannot monitor own power source).
W: 2-5/8" **H:** 1-3/4" **D:** 1/2" **WT:** .1

STOCK #	DESC.	1EA	10+EA
7160-ME	4-1/2 Digit Panel Meter	$18.95	$17.95
12073-RS	20V Resistors	$1.00	$0.90
12074-RS	200V Resistor	$1.00	$0.90

LED DIGITAL PANEL METER

3-1/2 Digit LED DPM with black plastic bezel & face plate. .56" character height, 200mV DC input, adj. decimal point, auto polarity, >100Mohm input imp. 2 readings/sec., 9V powered, .5% accuracy. Through panel mounting. Holes on board to add scale resistors.Meter power must be isolated from input (Cannot monitor own power source).
W: 2-5/8" **H:** 1-3/4" **D:** 3/8" **WT:** .1

STOCK #	DESC.	1EA	10+EA
7516-ME	LED Panel Meter	$11.95	$10.95
12073-RS	20V Resistors	$1.00	$0.90
12074-RS	200V Resistor	$1.00	$0.90

SWITCHBOARD PANEL METERS

Quality switchboard panel meters. Accuracy: 2-1/2%. Black legends and pointer on white face with mirror scale. Plastic case with "zero" adjustment. Front mounts in 1-1/2" hole. Four mounting screws on 1-1/4" ctrs. 30A DC meter includes External Shunt. 5A AC meter Includes external CT.
W: 2-3/16" **H:** 1-13/16" **D:** 1-1/2" **WT:** .16 (.35 for 30A)

STOCK #	DESC.	1EA
17671-ME	0-15V DC Voltmeter	$8.95
17672-ME	0-30V DC Voltmeter	$8.95
17674-ME	0-3A DCAmmeter	$8.95
17679-ME	0-30A DCAmmeter/Shunt	$9.95
17681-ME	0-150V AC Voltmeter	$8.95
17683-ME	0-5A AC Ammeter	$9.95

DC PANEL METERS

ELENCO DC panel meters, Black legends/Red over-ange, Plastic case. Back Mounts in 2" X 1-1/8" cutout NO MOUNTING HARDWARE
W: 2-1/4" **H:** 1-7/8" **D:** 1-1/4" **WT:** .1

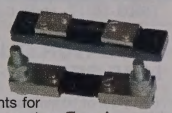
STOCK #	DESC.	1EA	10+EA
5333-ME	0-30V DC Voltmeter	$6.95	$6.59
5334-ME	0-40V DC Voltmeter	$6.95	$6.59
5336-ME	0-3A DC Ammeter	$6.95	$6.59

SWITCHBOARD VOLT & AMP METERS

Quality switchboard panel meters. Accuracy rated 2-1/2%. Black legends on white face with red tip pointer. Plastic case with "zero" adjustment. Front mounts in 2-3/8" (60mm) hole.Two mounting screws. AC & DC ranges.
W: 3-1/8" **H:** 2-1/2" **D:** 2-3/8" **WT:** .24

STOCK #	DESC.	1EA	10+EA
8720-ME	0-50V DC Voltmeter	$13.95	$12.95
8729-ME	0-100mA DCAmmeter	$13.95	$12.95

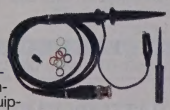
DC CURRENT SHUNTS A B,C,D



Panel mount DC current shunts for use with 50mV or 100mV DC ammeters. Type A haveThermoplastic mounting base with mounting holes. Screw terminals for input & meter leads. B,C,D have bolts for input.
A: L: 4-3/4" W: 1" H: 3/4" **WT:** .2
B: L: 3-7/8" W: 3/4" H: 1-1/2" **WT:** .42

STOCK #	FIG	DESC.	1EA	5+EA
15320-ME	A	10 A/50mV Shunt	$6.95	$5.49
15321-ME	A	25 A/50mV Shunt	$6.95	$5.49
16360-ME	A	30 A/75mV Shunt	$6.95	$5.49
15322-ME	A	50 A/50mV Shunt	$6.95	$5.49
15431-ME	B	100 A/50mV Shunt	$7.95	$6.95
15985-ME	B	100 A/100mV Shunt	$7.95	$6.95

40MHZ SCOPE PROBE



Mueller Quality 40MHz oscilloscope probe with a BNC connector to match to most equipment. With ground lead & retractable hook tip, IC tip. For field service, schools or shop. CE Listed
Max Input: X1: <200VDC + Peak AC.
X10: <600VDC + Peak AC
Imped: 1X= 1M ohm 10X= 10M ohm
Bandwidth:1X = >6MHz +-3db. 10X=>40MHz +-3db:
Capacitance 1X = 85-115pF; 10X = 18.5-22.5pF
Includes: Adj. screwdriver, Gnd. Lead, storage Pouch,
L: 1.2m **WT:** .2

STOCK #	DESC.	1EA
18164-TE	Mueller Scope Probe	$8.95

250MHZ HV SCOPE PROBES

Quality 250MHz oscilloscope probes with a BNC connector to match to most equipment. Impedance: 100X= 100M ohm.
With ground lead & retractable hook tip, IC tip.
For field service, schools or shop. CEListed
1.2KV PROBE: Working Voltage: 1,200VDC + Pk AC. Bandwidth: 100X = >250MHz +-3db. Capacitance 1X = 6.5pF(+ scope input)
L: 1.2m **WT:** .2

STOCK #	DESC.	1EA
18147-TE	1.2KV 250MHZ Probe	$34.95

2.0KV PROBE: Working Voltage: 2,000VDC + Pk AC. Bandwidth: 100X = >250MHz +-3db. Capacitance 1X = 6.5pF(+ scope input)
L: 1.2m **WT:** .2

STOCK #	DESC.	1EA
18148-TE	2.0KV 250MHZ Probe	$38.95

SCOPE PROBES SELECTABLE 10X OR 1X

Quality oscilloscope probes with a BNC connector to match to most equipment. Max Input: 600V AC P/P + DC. Impedance: 1X= 1M ohm: 10X= 10M ohm. With ground lead & retractable hook tip, IC tip.
For field service, schools or shop.
20MHz PROBE: Bandwidth:1X = >15MHz +-3db. 10X=>20MHz +-3db: Capacitance 1X = 46pF; 10X = 15pF, (+ scope input)
40MHz PROBE: Bandwidth:1X = >15MHz +-3db. 10X=>40MHz +-3db: Capacitance 1X = 46pF; 10X = 15pF, (+ scope input)
60MHz PROBE: Bandwidth: 1X = >15MHz +-3db 10X=>60MHz +-3db: Capacitance 1X = 46pF; 10X = 15pF, (+ scope input).
100MHz PROBE: Bandwidth: 1X = >6MHz +-3db 10X=>100MHz +-3db. Capacitance 1X= 150pF; 10X = 14pF, (+ scope input).
200MHz PROBE: Bandwidth: 1X = >10MHz +-3db. 10X=>200MHz +-3db: Capacitance 1X = 46pF; 10X = 11pF, (+ scope input):
L: 1.2m **WT:** .2

STOCK #	DESC.	EA
15085-TE	20MHz Probe	$7.95 any qty.
15086-TE	40MHz Probe	$8.95 any qty.
8630-TE	60MHz Probe	$9.95 any qty.
8682-TE	100MHz Probe	$15.95 any qty.
15087-TE	200MHz Probe	$18.95 any qty.

DIFFERENTIAL SCOPE PROBE

Quality 35MHz Differential oscilloscope probe with a BNC connector to match to most equipment.
For use in circuits that are referenced to high common mode voltages and floating high voltages.
Bandwidth: 35MHz (-3db)
Impedance: 1/1=10M/5PF
10/1=10M/5PF
100/1= 11M/5PF
Differential DC Input Resistance: 20M Ohm
Max. Input Diff.: Volts: (DC+AC)
1/1=+-10V
10/1=+-100V
100/1=+-1000V
Max. Common Mode:
1/1= +-100V
10/1=+-100V
100/1=+-1000V
Output: +-10V into 1M scope input (2X if into 50Ohm input.)
Output Imp.: 50 Ohms
CMRR: >40db @ 1MHz.
Input leads: 40cm (15in)
Output BNC Cable: 90cm (35+in.)
Ground Lead: (Banana Plug to scope) 16cm (6in.)
lead from BNC connector.
Includes: 2 retractable hook tips for input leads.
and 6V @ 400mA Plug-in power supply
Requires 4 "AA" batteries (Not Included) for portable use.
L: 6.9" **W:** 2.52" **T:** .9" **Ship. WT:** 2.5

STOCK #	DESC.	1EA
18149-TE	Differential Scope Probe	$295.95

ATTENUATORS TERMINATOR

Impedance: 50 ohms
Range: DC-1GHz
Vswr: <1.5:1
Power: 1W
BNC-M to BNC-F Attenuators & feedthrough terminator for test equipment, probes and fixtures
WT: .2

STOCK #	DESC.	1EA	5+EA
16545-TE	3db BNC Attenuator	$9.95	$7.95
16546-TE	6db BNC Attenuator	$9.95	$7.95
16547-TE	10db BNC Attenuator	$9.95	$7.95
16548-TE	20db BNC Attenuator	$9.95	$7.95
16549-TE	50ohm BNC Terminator	$9.95	$7.95

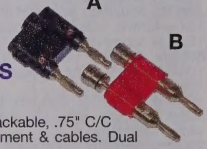
BINDING POST/ BNC ADAPTER

Quality, test adapter features Dual Binding posts to a BNC Male connecor. Binding posts have wire hole and accept Banana Plugs as well. Black Post is connected to BNC Shell & is marked "GND" while the Red Post is connected to BNC center pin.

L: 2-3/8" Body **WT:** .06

STOCK #	DESC.	1EA	10+EA
17579-PL	Binding Post to BNC	$2.95	$2.75

DUAL BANANA/ BINDING POSTS

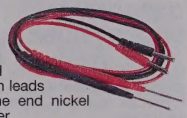


Quality, Gold plated, stackable, .75" C/C spacing. For test equipment & cables. Dual banana plug with: Binding Posts OR Set screws to attach wire, cable, component or spade lugs.

WT: .11(Banana/Posts) WT: .03 (Banana only)

STOCK #	DESC.	1EA	10+EA
14901-PL	Red Dual Banana Plug A	$1.25	$0.99
14902-PL	Black Dual Banana Plug A	$1.25	$0.99
14903-PL	Red Dual Binding Post B	$2.50	$1.95
14904-PL	Black Dual Binding Post B	$2.50	$1.95

TEST PROBE SET



General purpose, pair of red and black test probes, 36in leads with banana plugs on one end nickel plated brass probe on other.

L: 36" **WT:** .15

STOCK #	DESC.	1EA	5+EA
11214-TE	Banana Test Probe	$2.49	$2.25

7FT. JIFFY JUMPER

7ft long Red & Black, SPT-2 18AWG ZIP cord. One end has 3" battery jumper clamps with Red & Black covers, the other end has Cigarette Lighter plug. Designed to assist charge a car battery by jumpering from lighter plug to battery. Cloth storage bag for dash compart-

L: 7ft. **WT:** .3

STOCK #	DESC.	1EA
18565-CB	7ft. Jiffy Jumper Cable	$3.95

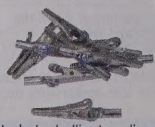
MICRO CLIP TEST LEADS

Red & Black test leads with Banana Plugs on one end and Micro clips on the other.

L: 34" **WT:** .07

STOCK #	DESC.	1EA	10+EA
15971-TE	Test Hook Leads	$1.95	$1.79

ALLIGATOR CLIPS



H.H. Smith: #350 10pc. pack of 2" bright Tin Plated steel alligator clips. Can be soldered, accepts a banana Plug attached using the screw. For test leads, clip leads, or test jigs.

L: 2"O/A **H:** 1/2" O/A **WT:** .1

STOCK #	DESC.	PK10
18612-AL	Smith Alligator Clips	$2.95

GOLD PLATED 40PC. UNIVERSAL COAX ADAPTER SET

Universal adapter kit allows you make up "Tween" connectors match almost any application. Quality set made of Gold plated machined brass, Gold plated phospher bronze center pins and Teflon insulators. high density foam hold connectors in the zippered soft padded case. Kit contains 8 inter-connectors that are used to mate the adapters pairs together. Contains 2 ea: "N" Male, "N" Female, UHF Male, UHF Female, Mini UHF Male, Mini UHF Female, BNC Male, BNC Female, TNC Male, TNC Female, RCA Male, RCA Female. "F" Male, "F" Female, SMA Male, SMA Female. Ideal field service or lab use.

WT: 1.7

STOCK #	DESC.	1EA
15909-TE	Univ. Coax Adapters	$119.00

ALLIGATOR CLIP LEAD SET

Handy set of 10 multi colored clip leads. 26 AWG leads 12" long , with insulated 27mm or 35mm alligator clips on each end, 2 leads each in five colors. For shop or lab.

L: 12" **WT:** .2

STOCK #	DESC.	1EA	5+EA
3569-TE	Mini Clip Lead Set 27mm	$1.95	$1.75
16434-TE	Clip Lead Set 35mm	$2.50	$1.99

MED. ALLIGATOR CLIP LEAD SET

Handy set of 5 multi colored clip leads. 24 AWG leads 12" long , with insulated 45mm alligator clips on each end, 1 lead each in five colors. For shop or lab.

L: 12" **WT:** .2

STOCK #	DESC.	1EA	5+EA
16435-TE	Med. Clip Lead Set	$2.50	$1.99

BATTERY CLIP LEAD SET

Handy set of 6 multi colored clip leads. 24 AWG leads 12" long , with insulated 10mm mesh jaw clips on each end, 1 lead each in six colors. For shop or lab.

L: 12" **WT:** .2

STOCK #	DESC.	1EA	5+EA
16436-TE	Clip Lead Set	$2.99	$2.50

18AWG ALLIGATOR CLIP LEADS

Handy set of 2 Red, 2 Black & 1 Green clip leads. 18 AWG leads 20" long , with insulated alligator clips on each end For shop or lab.

L: 20" **WT:** .2

STOCK #	DESC.	1EA	10+EA
16050-TE	5pc. Clip Lead Set	$1.65	$1.25

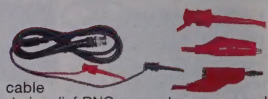
7FT. CLIPLEAD

7ft long SPT-2 18AWG ZIP cord. Black with wide Red stripe. Each end has 2" alligator clips with Red & Black covers.

L: 7ft. **WT:** .3

STOCK #	DESC.	1EA
17585-TE	7ft. Clip lead Pair	$4.95

TEST CABLES



RG-58U test cable with a molded strain relief BNC connector on one end and red & black clips on the other. RG-58 cable is 3ft long with an additional 4-1/2" of red & 8" of black wire from a strain relief to the clips.

L: 40" **WT:** .3

STOCK #	DESC.	1EA	5+EA
2802-TE	Test Hook Cable	$3.99	$2.99
12845-TE	Alligator clips Cable	$3.99	$2.99
12819-TE	Banana Plugs Cable	$3.99	$2.99

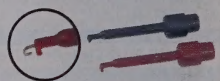
MICRO CLIP TEST LEADS

Red & Black test leads with a molded BNC Female on one end and Micro clips on the other.

L: 5" **WT:** .03

STOCK #	DESC.	1EA	10+EA
17559-TE	5in. Test Hook Leads	$3.95	$2.95

TEST HOOKS



Red & Black beryllium copper test hooks designed to clip to component leads leaving your hands free.1-1/2" probe length, 2-1/4" long overall, 1/2" body Dia. Add your own wire for custom lengths. For lab, shop or school.

WT: 005

STOCK #	DESC.	1EA	25+EA
7161-MI	Red Component Clip	$0.50	$0.45
7163-MI	Black Component Clip	$0.50	$0.45

MINI TEST PROBE SET

General purpose, pair of red and black test probes, 26in leads with Mini right angle, banana plugs on one end nickel plated brass probe on other.

L: 26" **WT:** .06

STOCK #	DESC.	1EA
18011-TE	Mini Banana Test Probe	$0.99

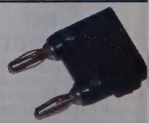
TELCO TYPE TEST CLIPS

Mueller JP-8078, 2-1/4"Angled Telco alligator clips with cable piercing tool steel spike. Designed to grip punch-down blocks as well as wire posts etc. Nickel-silver, with brass screw, washer & bronze lock washer. Includes pair of clips plus 1 Red & 1 Black flexible vinyl boot. For test leads, clip leads, or test jigs.

L: 2-1/4" **WT:** .088

STOCK #	DESC.	1EA
18160-TL	Mueller Telco Gator Clips	$6.95

DUAL BANANA SHORTING BAR

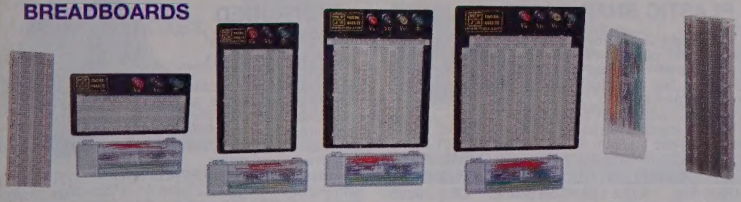


Quality stackable, .75" C/C spacing Shorting Bar. For test equipment "Zeroing", bridging to Ground etc.

WT: .038

STOCK #	DESC.	1EA
6511-PL	Black Shorting Bar	$2.50

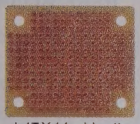
BREADBOARDS



White ABS plastic body (except G clear) , Aluminum mounting base for figures B,C,D and E. Nickel plated phosphor bronze contacts. Contact resistance less than 1 milliohm @ 1kHz. Tested for over 10,000 cycles. Snap lock molded dovetail for combining multiple boards, Suitable for 19-29 AWG wire & all DIP size components. Please visit our web site for more detailed information.

STOCK #	FIG.	DESCRIPTION	SIZE L X W	WT.	1EA	10EA
4443-TE	A	830 point	6-1/2" X 2-1/8"	.3	$4.95	$3.95
4444-TE	B	830 point 3 Binding Post and Jumper kit	7-7/8" X 4-1/8"	.6	$9.95	$8.95
4445-TE	C	1660 point 3 Binding Post and Jumper Kit	8-3/8" X 5-1/8"	.9	$12.95	$11.49
4446-TE	D	2390 point 4 Binding Post and Jumper Kit	10-1/8" X 7-7/8"	1.3	$18.95	$16.95
4447-TE	E	3220 point 4 Binding Post and Jumper Kit	10-3/8" X 9-1/8"	1.5	$22.95	$19.49
7027-TE	F	90 Piece 22 AWG Jumper Wire Kit		.3	$3.95	$3.49
18103-TE	G	830 point Clear ABS Body	6-1/2" X 2-1/8"	.3	$4.95	$3.95

1-3/4" X 1-1/2" PROTO BOARD



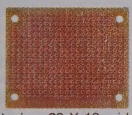
Single Sided
.062"phenolic board
.1" pad spacing
unplatedcopper pads

Mini general purpose prototyping board. 17 X 14 grid pattern with 202 total holes (9 missing in corners). Holds 1+ 14 or 16 pin ICs with room for several discrete components. Ideal for interface or signal isolation circuits. **Fits 15917-BX Case.**

L: 1-3/4" **W:** 1-1/2" **WT:** .009

STOCK #	DESC.	1EA	10+EA
15918-PB	Mini Proto Board	$0.59	$0.39

2-5/16" X 1-15/16" PROTO BOARD



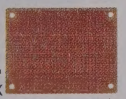
Single Sided
.062"phenolic board
.1" pad spacing
unplatedcopper pads

Mini general purpose board for prototyping. 23 X 18 grid pattern with 378 total holes (9 missing in corners). Holds 2+ 14 or 16 pin ICs with room for several discrete components. Ideal for interface or signal isolation circuits. **Fits 15915-BX.**

L: 2-5/16" **W:** 1-15/16" **WT:** .013

STOCK #	DESC.	1EA	10+EA
16227-PB	Small Proto Board	$0.79	$0.49

3-3/16" X 2-1/2" PROTO BOARD



Single Sided, .062"phenolic board, .1" pad spacing, unplated copper pads. 31 X 24 grid pattern with 708 total holes (9 missing in corners). Holds 3+ 16 pin ICs. **Fits 15913-BX Case.**

L: 3-3/16" **W:** 2-1/2" **WT:** .024

STOCK #	DESC.	1EA	10+EA
15914-PB	Medium Proto Board	$1.10	$0.79

4-5/16" X 3-1/8" PROTO BOARD

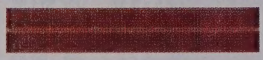
Single Sided
.062"phenolic board
.1" pad spacing
unplatedcopper pads

General purpose board for prototyping. 42 X 31 grid pattern with 1293 total holes (9 missing in corners). Holds 10+ 14 or 16 pin ICs with room for several discrete components. Ideal for interface or signal isolation circuits. **Fits 15911-BX Case.**

L: 4-5/16" **W:** 3-1/8" **WT:** .036

STOCK #	DESC.	1EA	10+EA
15912-PB	Large Proto Board	$1.75	$1.10

1215 POINT PROTOBOARD

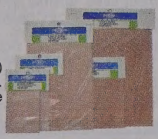


1215 hole (15 X 81) breadboard patterened similar to our 830 hole breadboard (4443-TE). Center holes are uncomitted. Holes either side are bussed 7 X 1. Does not have Buss down sides. Holds approx 9pcs 14/16 pin ICs

L: 8-7/16" **W:** 1-1/2" **WT:** .04

STOCK #	DESC.	1EA	10+EA
15565-PB	1215 Proto Board	$2.95	$2.49

COPPER CLAD BOARDS



Double (DS) or single sided (SS) copper clad PC Board material. Standard 1/16" thick FR4 Base material with1oz. copper/side

STOCK #	DESC.	WT.	1EA	5+EA
14868-DT	3" X 5" S/S	.1	$1.95	$1.49
14869-DT	4" X 6" S/S	.12	$2.25	$1.95
14870-DT	6" X 9" S/S	.3	$4.75	$3.95
14871-DT	6" X 6" D/S	.2	$3.95	$3.25
14872-DT	8" X 10" D/S	.4	$12.49	$10.95

COPPER CLAD BOARD

12" X 12" Double Sided copper clad PC Board material. 1.6mm (1/16") thick FR4 Base material with1oz. copper/side.

Sq: 12" **WT:** .74

STOCK #	DESC.	1EA	10+EA
15537-BD	12 X 12 Copper Clad	$8.95	$7.95

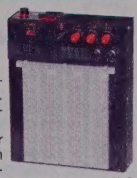
TIN PLATING KIT

Will plate a copper board with a bright, protective tin plate approx. .0004" thick. Improves solderibility, resists oxidation/tarnish & produces a professional appearance. Supplied as a dry power concentrate. When mixed will plate approx. 600sq./in. Kit includes: Concentrate, Tray, handling tool & 16oz. storage bottle for mix.

WT: .6/.4

STOCK #	DESC.	1EA	5+EA
14896-DT	Tin Plating Kit	$16.95	$15.49
14897-DT	1 Pt. Concentrate	$7.50	$7.25

POWERED PROTO-TYPE SYSTEM



Breadboard with built-in multi-output power supply with LCD Meters. Dual LCD Meters monitor the + & - Variable output supplies.
Features: 2 LCD Voltmeters, 4 power supply binding posts, 5 Distribution strips (500 pts), 3 Breadboard panels (1890Pts.), one +5VDC @ 1A supply, one 0 to +15VDC @ .5A supply, one 0 to-15VDC @ .5A supply
All parts are mounted in a metal case. Includes 6ft. IEC power cord.

W: 8" **D:** 10-1/2" **T:** 3-1/2" **WT:** 5.7

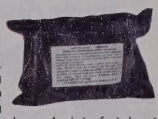
STOCK #	DESC.	1EA
17710-TE	Metered Powered Breadboard	$89.95

PREMIER SERIES COATED BOARDS

Premier Series boards are ideal for repeatedly making PC boards from POSITIVE films (Opaque lines/patterns on clear film). Resist coated Premier boards do not require U/V light, only a 100W light bulb. Double (DS) or single sided (SS) copper clad PC Board material. FR4 Base material with1oz. copper/side coated with resist and covered with a peel off plastic sheet (removed before exposer). Exposing frame recommended.

STOCK #	DESC.	WT.	1EA	5+EA
14880-DT	3" X 4" S/S	.1	$4.95	$4.49
14881-DT	3" X 6" S/S	.12	$5.95	$4.95
14882-DT	4" X 6" S/S	.15	$6.82	$5.99
14883-DT	6" X 9" S/S	.3	$11.00	$10.85
14884-DT	6" X 12" S/S	.4	$17.95	$15.95
14885-DT	3" X 4" D/S	.1	$5.49	$4.49
14886-DT	6" X 6" D/S	.22	$10.95	$9.95
14887-DT	6" X 9" D/S	.33	$13.95	$12.49
14888-DT	6" X 12" D/S	.5	$19.95	$18.95

BOARD ETCHANT

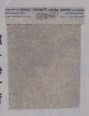


Dry concentrated Ferric Chloride. A dry powder that is mixed with water to produce a liquid used to remove the excess copper from PC board material. 1/4 lb. will makeup 1 pint of etchant solution. 1 pint will etch approx. 200sq/in of 1 oz. copper single side board. NOTE: Must be mixed/stored/used in glass or plastic containers NO metal!

WT: .5/1.1

STOCK #	DESC.	1EA	5+EA
14894-DT	1/4 lb. Etchant	$5.25	$4.75

COPY SHEETS

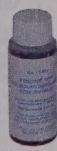


8-1/2" X 11" clear film suitable for LASER copier or printer to make artwork POSITIVES from magazines etc. Also can be used by directly taping, placing patterns or opaque inks to generate artwork. PACK of 5 Sheets

WT: .12

STOCK #	DESC.	1EA	5+EA
14875-DT	5pcs. Copy Film Sheets	$4.49	$3.75

PREMIER BOARD DEVELOPER



Concentrated developer (not etchant) for PREMIER Resist coated board material. Mix 10/1 with water. 10 oz. of mix will develop 10-22sq. ft. of board depending on art complexity.

WT: .2/.6

STOCK #	DESC.	1EA	5+EA
14890-DT	2oz. Developer	$7.95	$7.49
14891-DT	4oz. Developer	$13.95	$13.49

BURNISHING TOOLS

A Quality stylus tool that will give you a better, eaiser job with dry transfer DIRECT ETCH patterns. For characters, lines & patterns. Back end has 3/8i felt burnisher
Standard: patterns .08-.25
Spoon Tip: Patterns .25in. & larger

WT: .1

STOCK #	DESC.	1EA	5+EA
14873-DT	Standard Tool	$4.95	$3.95
14874-DT	Spoon Tip Tool	$5.99	$5.75

CONTACT EXPOSURE FRAME

For board material up to 9in. X 12in. Metal frame holds your artwork tight aginst the PC Board during exposure. Includes Metal frame, Glass Front cover, backing board & instructions.

STOCK #	DESC.	1EA	5+EA
14892-DT	ER-10 Exposure Frame	$28.95	$23.95

RESIST PENS

Lacquer based black resist ink can be used directly on bare copper boards to touch up breaks, add a trace etc. before etching, Can also be used on clear film artwork (Positives)to correct or add traces before exposing board.

WT: .04

STOCK #	DESC.	1EA	5+EA
14876-DT	Fine Point Pen	$2.25	$1.95
14877-DT	Extra Fine Point Pen	$2.45	$2.25

"DUST OFF" AEROSOL DUSTER

FALCON Dust-Off" , 12oz. can of duster used to blow dust and durt off equipment. Includes extension tube for hard to reach spots. Contains difluoroethane, Does not contain CFC's!. CANNOT BE SHIPPED AIR

WT: 1

STOCK #	DESC.	1EA	4+EA
16495-CE	DUST-OFF Duster	$4.95	$4.00

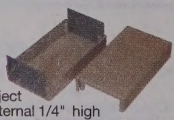
INSTRUMENT CASE

PACTEC CM59-135, Clamshell design ABS plastic instrument case. Internal posts for holding PC boards up to 8.6" X5.4". Black shells and endplates. Slightly contoured top & bottom. Includes 4 screws & 4 rubber feet.

D: 8.79" W: 5.57" H: 1.54" WT: .65

STOCK #	DESC.	1EA
17695-BX	PAC-TEK CM59-135 Case	$8.95

GRAY & BEIGE PLASTIC CABINETS

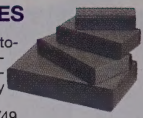


Beige clam shell plastic project boxes with gray end plates. Internal 1/4" high threaded standoffs on both halves for PC boards. Includes cover screws, NO PC board mtg. screws.

L: 7.7" W: 4.3" H: 3" WT: .66
L: 7.7" W: 4.3" H: 1.4" WT: .45

STOCK #	DESC.	1EA	10+EA
15519-BX	3" Thk. Two Tone Case	$8.95	$7.95
15884-BX	1.4" Thk. Two Tone Case	$8.49	$6.95

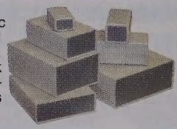
PLASTIC SNAP CASES



2 tone (Light Gray/Gray), snap together small case made from Hi-impact UL-94-HB ABS Plastic. Interlocking Top & Bottom held by snap-on Front & Back.
4 molded standoffs on 17547/48/49
6 molded standoffs on top & bottom 17550-BX
Stick-on Feet: 8.3mm dia Clear: Order **17551-HD** (4pcs.) 6mm dia Black: Order **17552-HD**

STOCK #	DIM. (W/D/Hin)	WT.	1EA
17547-BX	4.13 x 1.61 x0 .99 Box	.08	$2.95
17548-BX	5.12 x 2.99 x 1.18 Box	.17	$3.75
17549-BX	6.10 x 3.62 x 1.61 Box	.27	$3.95
17550-BX	7.87 x 4.76 x1.57 Box	.5	$4.95

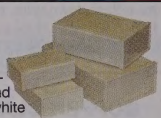
PLASTIC INSTRUMENT CASES



Clamshell design ABS plastic instrument case. Internal posts for holding PC boards. Light gray shells with Dark Gray endplates. Slightly contoured top & bottom. Includes 4 screws.

STOCK #	DIM. (W/L/Hin)	WT.	1EA	10+EA
17195-BX	3.65 x 6.25 x 2.3	.4	$7.95	$6.95
17196-BX	6.12 x 7.1 x 2	.62	$10.95	$9.95
17197-BX	5.38 x 7.5 x 3.17	.69	$11.95	$10.95
17198-BX	7.9 x 11 x 3.15	1.26	$17.95	$14.95
17199-BX	3.5 x 2 x 1.3	.1	$3.95	$3.59
17200-BX	4.72 x 2.36 x 2	.24	$5.95	$4.95
17201-BX	5.9 x 3.15 x 2.4	.37	$7.95	$6.95
17202-BX	7.5 x 3.9 x 3.15	.66	$11.95	$9.95

CLAMSHELL CASES



Clamshell design plastic instrument case. Internal posts and slots for holding PC boards. Off white shells and end plates. Slightly contoured top & bottom. Square front face. O/D listed below

17800-BX: L: 7.5" W: 4.7" H: 2.4" WT: .51
17801-BX: L: 4.7" W: 3.2" H: 1.6" WT: .21
17802-BX: L: 5.9" W: 3.8" H: 2.1" WT: .4
17803-BX: L: 3.9" W: 2.75" H: 1.4" WT: .15

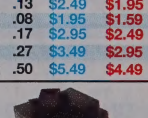
STOCK #	DESC.	1EA
17800-BX	7.5in. Clamshell Case	$4.95
17801-BX	4.7in. Clamshell Case	$3.49
17802-BX	5.9in. Clamshell Case	$4.59
17803-BX	3.9in. Clamshell Case	$3.39

PLASTIC PROJECT CABINETS

Black plastic project boxes with flat lids. Internal guides on ends & sides for holding PC boards. Includes cover screws. Outside Dimn. Shown
15881-BX NO Internal Guides

STOCK #	DIM. (L/W/Hin)	WT.	1EA	10+EA
15522-BX	3 x 2 x 1.16 Box	.07	$1.95	$1.59
15523-BX	4 x 3 x 1.6 Box	.13	$2.49	$1.95
15881-BX	4.41 x 2.24 x .87 Box	.08	$1.95	$1.59
15518-BX	5 x 2.5 x 1.75 Box	.17	$2.95	$2.49
15882-BX	5.9 x 3.9 x 2.36 Box	.27	$3.49	$2.95
15883-BX	7.25 x 4.5 x 2.52 Box	.50	$5.49	$4.49

PLASTIC PROJECT CABINETS



Black plastic project boxes with deep lids. Internal guides on ends & sides for holding PC boards. Includes cover screws. Outside Dimn. Shown

STOCK #	DIM. (L/W/Hin)	WT.	1EA	10+EA
15885-BX	3.74 x 1.89 x 1.46 Box	.11	$2.95	$2.49
15886-BX	4.53 x 2.46 x 1.73 Box	.15	$3.49	$2.95
15520-BX	5.3 x 3 x 1.9 Box	.14	$3.95	$3.49
15887-BX	6.3 x 3.74 x 2.44 Box	.33	$3.95	$2.95
15888-BX	7.6 x 4.53 x 2.95 Box	.43	$7.95	$6.49
15521-BX	8.8 x 5.5 x 3.6 Box	.75	$7.95	$7.25

EXTRUDED INST. CASES/ PERF BOARD

Extruded aluminum case with mounting flanges on end plates. Natural Aluminum finish on case and end plates. Slots for PC Board on inside. Groved outside with smooth end plates.
Includes Double Sided FR-4 board with Plated Through .032 holes on .1" spacing.
Board For 17804 BX contains 20X57 Holes
Board For 17805 BX contains 24X67 Holes
Board For 17806 BX contains 32X77 Holes
I/D listed below

17804-BX: L: 6" W: 2.4" H: 0.9" WT: .6
17805-BX: L: 7" W: 2.75" H: 1.187" WT: .8
17806-BX: L: 8" W: 3.75" H: 1.62" WT: 1.13

STOCK #	DESC.	1EA
17804-BX	6in. Extruded Alum. Case/Board	$9.95
17805-BX	7in. Extruded Alum. Case/Board	$12.95
17806-BX	8in. Extruded Alum. Case/Board	$14.95

PLASTIC PROJECT CABINETS & PERF BOARDS

Black plastic project boxes with Aluminum lids. Internal posts for holding PC boards. Includes cover & perf board screws. Solderable Perf. Board has .1" hole grid pattern, copper one side.
All Dimn. Approxmate.

Large Box: L: 5-1/4" W: 3-1/4" D: 1-9/16" WT: .22
Large Perf. Board: L: 4-1/4" W: 3-1/8" T: 1/16" WT: .04
Med Box:L: 4-1/8" W: 2-5/8" D: 1-9/16" WT: .15
Med Perf. Board: L: 3-1/8" W: 2-1/2" T: 1/16" WT: .02
Small Box: L: 3-5/16" W:2-1/8" D: 1-3/8" WT: .11
Small Perf. Board: L: 2-1/4" W: 1-7/8" T: 1/16" WT: .02
Mini Box: L: 2-11/16" W: 1-11/16" D: 1-3/16" WT: .08
Mini Perf. Board: L: 1-3/4" W:1-1/2" T: 1/16" WT: .007

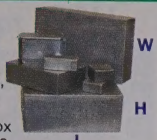
STOCK #	DESC.	1EA	10+EA
15911-BX	Large Project Box	$4.95	$3.25
15912-PB	Large Perf. Board	$1.75	$1.25
15913-BX	Medium Project Box	$3.50	$2.49
15914-PB	Medium Perf. Board	$1.10	$0.89
15915-BX	Small Project Box	$2.75	$1.85
16227-PB	Small Perf. Board	$0.79	$0.69
15917-BX	Mini Project Box	$2.50	$1.69
15918-PB	Mini Perf. Board	$0.59	$0.39

SEALED PROJECT BOXES

Gray ABS plastic project boxes with lids. Tongue & grove sealing meet IP-65 & NEMA 4 requirements. 4 standoffs on base for holding PC boards. Includes stainless cover screws & neoprene gasket material. Outside Dimn. Shown.
17390, 391, 17400-17407 NO Internal Guides

STOCK #	DIM. (L/W/Hin)	WT.	1EA
17390-BX	2.52 x 2.28 x 1.38 Box	.13	$3.95
17391-BX	7.24 x 1.42 x 1.38 Box	.23	$6.95
17392-BX	4.53 x 3.54 x 2.17 Box	.35	$6.95
17393-BX	6.73 x 4.76 x 2.17 Box	.54	$9.95
17394-BX	8.74 x 5.75 x 2.17 Box	.83	$11.95
17395-BX	6.73 x 4.76 x 3.15 Box	.73	$10.95
17396-BX	7.68 x 3.15 x 2.17 Box	.49	$7.95
17397-BX	8.74 x 5.74 x 2.95 Box	.97	$11.95
17398-BX	10.43 x 7.28 x 3.74 Box	1.5	$19.95
17399-BX	2.05 x 1.97 x 1.38 Box	.09	$3.95
17400-BX	3.23 x 3.15 x 2.17 Box	.27	$5.95
17401-BX	6.3 x 3.15 x 3.35 Box	.53	$8.95
17402-BX	7.87 x 4.72 x 2.95 Box	.8	$11.95
17403-BX	4.72 x 4.72 x 3.54 Box	.6	$9.95
17404-BX	6.3 x 6.3 x 3.54 Box	.85	$12.95
17405-BX	9.45 x 6.3 x 4.72 Box	1.5	$19.95
17406-BX	11.81 x 9.06 x 4.37 Box	2.4	$32.95
17407-BX	14.17 x 7.87 x 5.91 Box	3.1	$39.95

DIE CAST ALUMINUM BOXES



ADC12 Aluminum alloy, Cover & M3.5 Screws included, Natural Bare Aluminum Finish
AVAILABLE ON-LINE
Sealing Gasket to make box weather resistant to IP-66 Specs.

STOCK #	L"	W"	H"	WT.	1EA
16281-BX	2.36	2.17	1.18	.18	$3.60
16282-BX	3.15	2.17	0.98	.2	$3.90
16283-BX	3.50	1.37	1.18	.16	$3.54
16284-BX	4.49	2.52	1.18	.28	$5.34
16285-BX	4.49	2.52	2.17	.36	$6.54
16286-BX	4.49	3.50	2.17	1.30	$8.01
16287-BX	4.72	3.94	1.38	.56	$7.77
16288-BX	5.51	3.94	2.95	.86	$11.22
16289-BX	6.50	5.00	2.95	1.12	$14.79
16290-BX	6.73	4.76	2.17	.96	$13.41
16291-BX	6.73	4.76	4.17	1.40	$16.62
16292-BX	8.74	5.75	2.17	1.44	$17.91
16293-BX	8.74	5.75	4.17	1.94	$24.27
16294-BX	9.84	9.84	3.94	3.50	$44.88
16295-BX	10.83	6.89	2.56	2.08	$26.91

BLACK/CLEAR FEET

Black rubber or Clear polyurethane stick-on feet.
Sold in strip of 4pcs.
BLACK Dia: 6mm (.236") **H:** 3mm (.118") **WT:** .002
CLEAR Dia: 8.3mm (.32") **H:** 2.6mm (.1") **WT:** .005

STOCK #	DESC.	1PK
17552-HD	Black Rubber Feet	$0.49
17551-HD	Clear Rubber Feet	$0.49

STORAGE/TRANSIT CASE

Molded Bright Yellow ABS plastic equipment case with handle, latches and hinges. Silicone rubber gasket for water resistance. Pressure relief screw. Foam insert in Top & Bottom.
Inside: **L:** 9.3" **W:** 6.2" **HT:** 3.5"
L: 10.23 **W:** 8" **H:** 4" **WT:** 1.85

STOCK #	DESC.	1EA
17813-BX	Small Yellow Transit Case	$17.95

LARGER STORAGE/ TRANSIT CASE

Molded Bright Yellow, ABS plastic equipment case with handle, latches and hinges. Silicone rubber gasket for water resistance. Pressure relief screw. Foam insert in Top & Bottom.
Inside: **L:** 12" **W:** 7.4" **HT:** 4.4"
L: 13 **W:** 8.25" **H:** 4.7" **WT:** 3.1

STOCK #	DESC.	1EA
18351-BX	Medium Yellow Transit Case	$29.95

RACK SCREWS

Pack of 10-32 Heat Treated Steel Phillips screws 3/4" long with nylon washers for mounting panels in racks

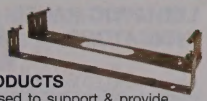
STOCK #	DESC.	WT.	1+EA
17246-RK	50pk 10-32 Rack Screws	.3	$4.95
17247-RK	100pk 10-32 Rack Screws	.6	$8.95

ESD BOX

USED Black Plastic ESD safe Transport box with hinge & latch. Internal Easily removed Stainless plate with a special ZIF socket. 5-1/8"X2-7/8"X1" internal space.
L: 5-3/4" **W:** 3-1/2" **T:** 1-1/2" **WT:** .44

STOCK #	DESC.	1EA
18551-BX	ESD Safe Box	$3.95

WALL PANEL BRACKETS

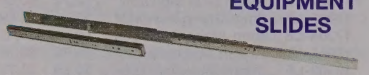


VIDEO MOUNT PRODUCTS

Hinged Wall brackets used to support & provide easy access to backs of 19" rack panels. Black, static resistant Powder Coated steel. Left or right side swing. 4" depth. Includes 10 & 12-32 Rack Mount Screws.

STOCK#	PICT.	VMP#	HT.	WT.	1EA
17243-RK	A	ER-HWB1	1U	1.5	$16.95
17244-RK	B	ER-HWB2	2U	2.3	$18.95

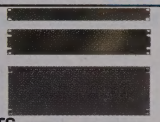
EQUIPMENT SLIDES



Accuride, 3 section, Zinc plated steel, ball bearing equipment/drawer slides. Front disconnect allows removal of chassis from cabinet. Side mounting. Side Space: 3/8". Closed Position: 20", Fully Extended: 42", Slide Travel: 22", Max Load: 100lbs/pair. Sold as pairs.
L: 20" **H:** 1-3/8" **T:** 3/4" **WT:** 5/pair

STOCK #	DESC.	1+EA
17418-RK	Pair Equipment/Drawer Slides	$24.95

STEEL 19" RACK PANELS



VIDEO MOUNT PRODUCTS

Cold rolled steel drilled & notched for standard rails, Black Powder coat finish

STOCK#	VMP #	HEIGHT	WT.	1EA
17237-RK	ER-1B	1U (1-3/4")	.7	$4.95
17238-RK	ER-2B	2U (3-1/2")	1.3	$7.95
17239-RK	ER-4B	4U (7")	2.7	$13.95
17240-RK	ER-8B	8U(14")	5	$19.95

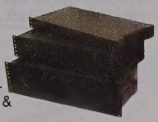
LCD MONITOR RACK MOUNT

VIDEO MOUNT PRODUCTS

Rack mount or monitors with 75 & 100mm VESA mounting pattern. Recess mounts10-17" monitors and can be inverted for up to 23" models, 50lbs. max weight. Black, static resistant Powder Coated steel. Mounting hardware included

STOCK#	VMP#	HT.	WT.	1EA
17245-RK	ER-LCD1017	9U	12	$66.95

19" RACK MOUNT CABINETS



Black plastic rack mount clamshell cases. Vented sides with removable front & rear panels. Internal standoffs on top & bottom. Assembly required.
internal space:
17086-BX 16-3/16" X 7-11/16" X 1"
17087-BX 16-3/16" X 7-11/16" X 2-7/8"
17088-BX 16-3/16" X 7-11/16" X 4-1/2"
W: 19" **D:** 8"

STOCK#	DESC.	WT.	1EA
17086-BX	1U Rack Cabinet	1.9	$19.95
17087-BX	2U Rack Cabinet	2.5	$29.95
17088-BX	3U Rack Cabinet	3.0	$39.95

19" RACK CABINETS

19in. rack mount cases. Aluminum Face Panel with steel chassis & covers. Satin black textured paint.
17807-BX: **W:** 19" **D:** 11.8" **H:** 1-3/4" **WT:** 5.8
17808-BX: **W:** 19" **D:** 11.9" **H:** 3-1/2" **WT:** 7.2

STOCK#	DESC.	1EA
17811-BX	1U Metal Rack Cabinet	$34.95
17812-BX	2U Metal Rack Cabinet	$39.95

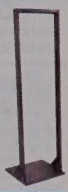
RELAY RACKS

VIDEO MOUNT PRODUCTS

All Aluminum
9ga. Rails Drilled & Tapped 10-32, EIA std. spacing, 5ga. "L" base plates. Available in: Black Powder Coat finish
Shipped unassembled with hardware

STOCK#	COLOR	VMP P/N	HEIGHT	WT.	1EA
17226-RK	Black	ER-72	72	28	$159.95
17227-RK	Black	ER-84	84	28	$172.95

19" HEADEND RACKS



VIDEO MOUNT PRODUCTS

13ga. Steel Rails Drilled & Tapped 10-32, EIA std. spacing, 16ga. Base, Black static resistant Powder Coat finish.
Shipped unassembled with hardware

STOCK#	COLOR	VMP P/N	HEIGHT	WT.	1EA
17228-RK	Black	ER-148	48	30	$110.95
17229-RK	Black	ER-1	71	40	$139.95
17230-RK	Black	ER-184	84	45	$145.95

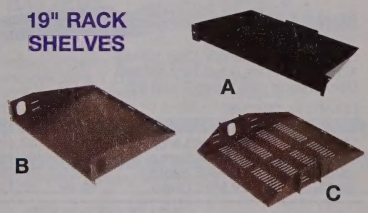
19" HEADEND EXPANSION RAILS

VIDEO MOUNT PRODUCTS

13ga. Steel Rails and side stabilizing bars to convert Headend rack to 4 posts. Black static resistant Powder Coat finish.
Shipped unassembled with hardware

STOCK#	COLOR	VMP P/N	HEIGHT	WT.	1EA
17231-RK	Black	ER-1-4PKIT	71	25	$82.95
17232-RK	Black	ER-184-4PKIT	84	28	$92.95

19" RACK SHELVES

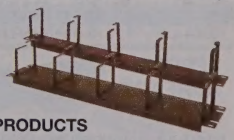


VIDEO MOUNT PRODUCTS

Black Powder coat finished Steel. Drilled for standard rails. 50lb. MAX Load
17235 Center mount & Vented

STOCK#	PICT.	VMP#	DEPTH	WT.	1EA
17233-RK	A	ER-S1	12"	5	$22.95
17234-RK	B	ER-S2U	14-3/4"	7.5	$29.95
17235-RK	C	ER-S2CM	19	10	$48.95

CABLE BRACKETS



VIDEO MOUNT PRODUCTS

Black, static resistant Powder Coated steel panels for 19" racks or wall brackets. Large slotted metal rings manage all types of cables.Includes 10 & 12-32 Rack Mount Screws.

STOCK#	VMP#	HT.	WT.	1EA
17241-RK	ER-DRCM1	1U	1.2	$17.95
17242-RK	ER-DRCM2	2U	2	$21.95

12V PANEL LAMPS

Panel lamps with Non replaceable bulb rated 12V. Tapered square top (.6"sq. X .5" tall). Solder terminals. Mounts in round hole

Mtg. Hole: .6" **L:** 1-1/2" **WT:**.016

STOCK #	DESC.	1EA	10+EA
7117-LA	Red Panel Lamp	$0.95	$0.89
7118-LA	Yellow Panel Lamp	$0.95	$0.89
7119-LA	Green Panel Lamp	$0.95	$0.89
14183-LA	Blue Panel Lamp	$0.95	$0.89
14184-LA	Clear Panel Lamp	$0.95	$0.89

12V G-4 BI-PIN LED LAMPS

Bi-pin bulb replacement assembly features: 14 super brite LEDs,12VAC or DC operation, 55deg. beam angle. Replacement for most G-4 lamps. .9mm dia. X 8mm Steel Pins, plastic body.

Dia.: 22.5mm **T:** 11mm **WT:** .009

STOCK #	DESC.	1EA	10+EA
17352-OP	Red LED Bi-Pin Lamp	$8.95	$6.95
17353-OP	Green LED Bi-Pin Lamp	$8.95	$6.95
17354-OP	Amber LED Bi-Pin Lamp	$8.95	$6.95
17355-OP	Blue LED Bi-Pin Lamp	$8.95	$6.95
17356-OP	White LED Bi-Pin Lamp	$8.95	$6.95

HALOGEN YARD BULB

MR-16

Pre packaged, Halogen bulbs designed for Landscape fixtures. Operate from 12VAC power source.
35W Type MR16 (Bi-pin/Reflector bulb)

STOCK #	DESC.	WT.	1EA
15803 -LA	35W MR16 Lamp	0.08	$4.95

MINI LAMPS

Grain-of-Wheat" lamps, Only 1/8"dia X 1/4". 10" leads. Ideal for hobbists! Use in model cars, boats, trains etc..

L: 1/4" **Dia:** 1/8" **WT:**.001

STOCK #	DESC.	1EA	10+EA
8980-LA	1.5V Mini Lamp	$0.59	$0.49
8981-LA	3.0V Mini Lamp	$0.59	$0.49
8982-LA	6.0V Mini Lamp	$0.59	$0.49
8983-LA	12V Mini Lamp	$0.59	$0.49

12V HIGH INTENSITY LIGHT

USED, Plastic case with a GE #789 or eq. 12V @ 1.2A bi-pin lamp, mirror reflector, power switch, and compound lens. 5.5mm X 2.5mm Coaxial jack on back. Light dia.approx. 5" @ 12in. /10" @ 24in.

H: 4-3/4" **W:** 2-3/8" **D:** 2-7/8" **WT:** .6

STOCK #	DESC.	1EA	10+EA
16304-LA	12V Hi-Intensity Light	$7.95	$6.95

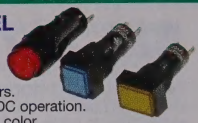
FRONT SURFACE MIRROR

Front surface mirror made by OCLI for laser photo printers or copiers. Minimum reflectivity greater than 85%, 10mm thick plate glass for durability.
NOTE: Shipped with protective Film on front surface, Remove before use.

L: 12-1/2" **W:** 1-15/16" **T:** 3/8" **Shp WT:** 1

STOCK #	DESC.	1EA
17156-MI	Front Surface Mirror	$4.50

LED12VDC PANEL INDICATORS



Panel mount LED indicators.
Internal resistor for 3-12VDC operation.
Internal LED matches lens color.
Solder terminals
Lens Dimn. shown, O/A size 2mm larger
Mtg Hole: 8/10/12mm **L:** 1-3/8" **WT:** .005

Round

STOCK #	DESC.	1EA	10+EA
17301-LE	8mm Red Indicator	$0.79	$0.69
17302-LE	8mm Blue Indicator	$0.79	$0.69
17303-LE	8mm Green Indicator	$0.79	$0.69
17304-LE	8mm Amber Indicator	$0.79	$0.69
16961-LE	10mm Red Indicator	$0.89	$0.79
16962-LE	10mm Blue Indicator	$0.89	$0.79
16963-LE	10mm Green Indicator	$0.89	$0.79
16964-LE	10mm Amber Indicator	$0.89	$0.79
16981-LE	12mm Red Indicator	$0.99	$0.89
16982-LE	12mm Blue Indicator	$0.99	$0.89
16983-LE	12mm Green Indicator	$0.99	$0.89
16984-LE	12mm Amber Indicator	$0.99	$0.89

Square

STOCK #	DESC.	1EA	10+EA
17305-LE	8mm Sq. Red Indicator	$0.79	$0.69
17306-LE	8mm Sq. Blue Indicator	$0.79	$0.69
17307-LE	8mm Sq. Green Indicator	$0.79	$0.69
17308-LE	8mm Sq. Amber Indicator	$0.79	$0.69
16965-LE	10mm Sq. Red Indicator	$0.89	$0.79
16966-LE	10mm Sq. Blue Indicator	$0.89	$0.79
16967-LE	10mm Sq. Green Indicator	$0.89	$0.79
16968-LE	10mm Sq. Amber Indicator	$0.89	$0.79
16985-LE	12mm Sq. Red Indicator	$0.99	$0.89
16986-LE	12mm Sq. Blue Indicator	$0.99	$0.89
16987-LE	12mm Sq. Green Indicator	$0.99	$0.89
16988-LE	12mm Sq. Amber Indicator	$0.99	$0.89

Rectanglar

STOCK #	DESC.	1EA	10+EA
17309-LE	8x11 Rect. Red Indicator	$0.79	$0.69
17310-LE	8x11 Rect. Blue Indicator	$0.79	$0.69
17311-LE	8x11 Rect. Green Indicator	$0.79	$0.69
17312-LE	8x11 Rect. Amber Indicator	$0.79	$0.69
16969-LE	10x14 Rect. Red Indicator	$0.89	$0.79
16970-LE	10x14 Rect. Blue Indicator	$0.89	$0.79
16971-LE	10x14 Rect. Green Indicator	$0.89	$0.79
16972-LE	10x14 Rect. Amber Indicator	$0.89	$0.79
16989-LE	12x16 Rect. Red Indicator	$0.99	$0.89
16990-LE	12x16 Rect. Blue Indicator	$0.99	$0.89
16991-LE	12x16Rect. Green Indicator	$0.99	$0.89
16992-LE	12x16Rect. Amber Indicator	$0.99	$0.89

FRONT SURFACE MIRROR

Because of their low distortion; front surface mirrors are used for laser scanners and other optical equipment. Made of 1/8" flat plate glass. May have some slight imperfections. REMOVE "PINK" PROTECTIVE COATING OVER FRONT SURFACE BEFORE USE

L: 4-1/2" **W:** 1-1/8" **T:** 1/8" **WT:** .55

STOCK #	DESC.	1EA	100+EA
15173-MI	Front Surface Mirror	$1.50	$0.99

GLASS PRISM

Equilateral optical quality clear glass prism. Ideal for classroom use, science projects optical experimemnts

L: 50mm **W:** 50mm **H:** 45mm **WT:** .4

STOCK #	DESC.	1EA
17933-LN	Equilateral Glass Prism	$7.95

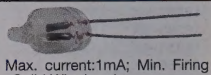
LASER POINTER

Stylish pen style LASER pointer contains visible red laser diode, lens & 2 AAA batteries in metal case. <4mW class III-A output power, Momentary push button switch for easy use. Visibility exceeds 300ft. when used with projection/display screens.

Dia: .45" **L:** 5.7" **WT:** .3

STOCK #	DESC.	1EA	5+EA
8689-LZ	LASER Pointer	$12.95	$11.95

NEON BULB



Standard Neon Lamp, Max. current:1mA; Min. Firing Voltage: 60VAC. 1" long Solid Wire Leads.

Dia: 5.7mm **L:** 12mm (Body) **WT:**.009

STOCK #	DESC.	1EA
18285-LA	Mini Neon Lamp	$0.29

LIGHT FIXTURE & LAMP

Originally mfg. for use in signage & display cases. Surface mount fixture for PL-S2 Compact Fluorescent Lamps (Includes a 13W PL-S Compact Fluorescent Lamp), 10in. leads with molded 3 pin special connector for "Daisy Chaining" units. 120VAC 60Hz, .35A. UL listed

L: 9-1/8" **H:** 2-3/4" **W:** 2-1/4" **WT:** 1.6

STOCK #	DESC.	1EA
18098-MI	120VAC Compact Fluorescent	$8.95

120V AC LED MINI LAMP

Mini spots with 18 LEDs and standard lamp base. These are not really bright but are usefull for down lighting in halls & walkways, small signs or where their 20,000+hr life & low power is required. Contains NO Mercury, cool running. Approx. color Temp: 5000 (Cool White). Indoor or sealed outdoor fixtures only. RoHS

Dia.: 2" **L:** 2" **WT:** .6

STOCK #	DESC.	1EA
18323-LA	120VAC 18 LED Mini Lamp	$3.95

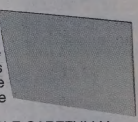
FRONT SURFACE MIRROR ASSEMBLY

Removed from new equipment. Assembly with 2 front surface mirrors that measure 6-1/4" X 1" X 3/16" thick. Steel frame with plastic hardware. Removeable mirrors held in place by spring clips & glue.

L: 8-3/4" O/A **W:** 2-1/2"O/A **H:** 2" O/A **WT:** .6

STOCK #	DESC.	1EA
17368-MI	Dual F/S Mirror Assembly	$3.95

FRONT SURFACE MIRROR

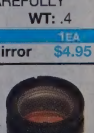


Large low distortion; front surface mirrors are used for laser scanners and other optical equipment. Made of 1/8" flat plate glass. May have some slight imperfections.
NO PROTECTIVE FILM HANDLE CAREFULLY

L: 6-11/16" **W:** 5-1/8" **T:** 1/8" **WT:** .4

STOCK #	DESC.	1EA
17945-MI	Large Front Surface Mirror	$4.95

COPIER LENS



40mm lens assembly with plastic barrel & glass elements. We think that were used in color copy machines?? Focal length approxmately 8in. Internal red filter for correcting for incandescent lamp ??

L: 2-3/8" **DIA:** 2-3/16" **WT:** .5

STOCK #	DESC.	1EA	10+EA
14428-LN	40mm Lens Assembly	$4.95	$3.95

"DELI" COUNTER KIT

DO IT YOURSELF "Deli" Counter kit. Kit contains a 0-99 Up counter board/display assembly, power supply and a pushbutton Switch. Just about any momentary type contact will operate the counter.
You supply a case, solder and labor to solder the power supply & switch to the attached leads.
2-3/4" tall super brite Red LED make up the digits.
Each contact closer causes counter to increase 1 count. There is no reset function, and unit will remember last count for a couple days so to get to "00" you must complete the count.

Display: W: 5" **H:** 4-3/16"
Driver: W: 4-5/16" **H:** 2" **WT:** .5

STOCK #	DESC.	1EA
17511-KT	"Deli" Counter Kit	$10.95

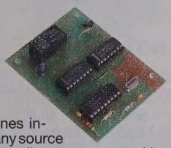
IR ILLUMINATOR KIT

Small circuit board holds 36 I/R leds. Designed to provide "light" for CCD cameras. Depending on how you mount the LEDs, unit will project up to a 6ft spot at 10ft. Plug supply included.

DIA: 2" **T:** 3/9" **WT:** .4

STOCK #	DESC.	1EA
11665-OP	IR Illuminator Kit	$15.95

"SWEET 16" DTMF DECODER KIT



This kit decodes all DTMF tones including 0-9,#,*, A-D. Can use any source for the DTMF tone, such as phone line, scanner, etc. You use a jumper to connect 1 of 16 outputs to drive the internal relay. When selected digit is detected the relay is energized. By adding additional external relays you can control up to 16 different devices. Relay is energized as long as tone is detected. By adding external flip-flops or delay circuits you obtain "toggle" or time out actions. Ideal building block for more complicated circuits. Turn on your AC unit from your office. Use your cell phone to activate an outside light. Internal relay is rated DPDT 1A max @ 12VDC/115VAC resistive; so if a heavy or high power load is expected you should use the internal relay to control a heavier external relay. Operates on 7.5-18VDC (9V battery) TT-16

L: 2-7/8" **W:** 2-1/8" **H:** 5/8" **WT:** .15

STOCK #	DESC.	1EA	5+EA
8838-RB	DTMF Sweet-16 Kit	$34.95	$29.95

SUPER BIG-EAR AMPLIFIER KIT

Super sensitive amplifier kit can hear through walls etc. Couple to a parabolic reflector & earphones to hear for blocks. Based on the LM386 ChipCan be used as a general purpose 1.5W amp. Supplied with a mini-microphone. Runs on 6-12V DC. AA-1D

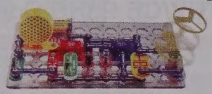
L: 1-3/4" **W:** 1" **H:** 3/8" **WT:** .2

STOCK #	DESC.	1EA	5+EA
3378-RB	Big Ear Kit	$10.95	$9.95

SNAP TOGETHER ELECTRONIC FUNDAMENTALS PROJECT KITS

FUN & EDUCATIONAL

"Snapcircuits"For adults or children wanting to learn the fundamentals of electronics while doing basic, working projects. Parts simply "snap" together. Interlocking, stacking parts such as resistors, diodes, switches, motors, capacitors, interconnects on plastic pieces. Plastic base supports the parts. Build simple electronic "Doorbell", Siren, logic circuits etc. No knowledge of electronics is needed. Simple color drawings in workbook take you through the setup. Ideal for children science classes and demos. Additional/replacement parts available from Mfg. Requires 4 "AA" batteries (not supplied.
NOT for children under 3, Recommended age 8+



KIT 14264-KT contains 30+ pieces and simple expriments 1-101

WT: 2

STOCK #	DESC.	1EA
14264-KT	Snapcircuits Jr. Project Kit	$29.95

KIT 14263 contains 60+ pieces, Including parts not available in 14264-KT, Experiments 1-101 & 102-305.

WT: 3.3

STOCK #	DESC.	1EA
14263-MI	Snapcircuits Deluxe Project Kit	$49.95

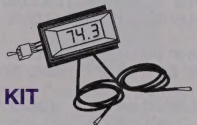
INFRARED ANALYZER KIT

Kit uses Motorola's MC3373 Remote control amp/detector. This kit allows you to display & analyze code patterns from any infared device. Software allows you to save to disc, compare current display with one stored on disc, & print screen. 2 second sampling is displayed and you can "zoom" in on any 8 millisecond portion. The on screen trace can be saved in ASCII comma-delimited format for import into spreadsheets. Kit connects to your computers parallel port and the software runs on any P.C. compatable 386 or later machine with VGA graphics & DOS 3.3 or higher. TIR-1

L: 2-7/8" **W:** 1-1/2" **H:** 3/4" **WT:** .3

STOCK #	DESC.	1EA	5+EA
8837-RB	I/R AnalyzerKit	$89.95	$79.95

DUAL PROBE DIGITAL THERMOMETER KIT

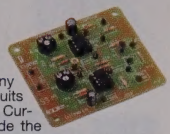


Kit uses a 3-1/2 digit LCD Digital Panel Meter & a pair of National LM34 temperature sensors to construct an accurate thermometer with .1° resolution & +-1-1/2° accuracy from -20° to +199.9° "F". The TO-92 size sensors can be remotely located. Uses flat 4 conductor "phone" type cable to connect sensors so their's no stiff cable or wires. Switch controls power & which sensor is read. Ideal for monitoring inside vs outside temperature, Photographic chem baths, equipment temperatures in cabinet. Requires 9V battery. LCD-T1
Pre drilled box with cutout available **separately**.

Mtr: **L:** 1-1/2" **W:** 1-1/8" **H:** 1/2" **WT:** .17
Bx: **L:** 3" **W:** 2-1/2" **H:** 1-5/8" **WT:** .13

STOCK #	DESC.	1EA	5+EA
8835-RB	Digital Thermo. Kit	$34.95	$29.95
8836-RB	Predrilled Plastic Box	$9.95	$8.95

ELECTRONIC TIMER KIT



Dual mode timer kit has many uses. Dual LM 555 timing circuits plus a relay driver (100mA Max. Current Sink). In the astable mode the circuit produces a continous train of pulses; in the mono stable mode produces a triggered time delay useful for debouncing switches. Can be cascaded for compound applications. Operates from 4.5-12V DC. EBTD-9

L: 2-13/16" **W:** 2-1/4" **H:** 5/8" **WT:** .15

STOCK #	DESC.	1EA	5+EA
16916-RB	555 Timer Kit	$12.95	$11.95

DC MOTOR SPEED CONTROL KIT

12V DC motor or lamp control kit. Will control any 12V DC load up to 5A. uses pulse width mod. to give 5% to 98% control range. Kit contains all parts and a 12 V DC demo motor. Ideal for DC tools, science fair projects.

L: 3" **W:** 2-3/8" **H:** 1-3/4" **WT:** .63

STOCK #	DESC.	1EA	5+EA
16925-KT	DC Speed Control Kit	$15.95	$14.95

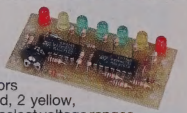
VOICE ACTIVATED SWITCH

Voice activated switch circuit. Will operate a 100mA load. Can be used to drive a light, a relay for higher loads, etc. Use for alarms, ham radios , etc. Operates from audio source or from crystal, ceramic or electret mike. Operates on 5-15V DC. VOX-1

L: 1-1/2" **W:** 1-1/4" **H:** 3/8" **WT:** .2

STOCK #	DESC.	1EA	5+EA
3373-RB	VOX Switch Kit	$6.95	$5.95

BATTERY MONITOR KIT

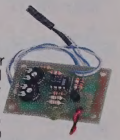


Voltage monitor kit monitors voltages using 7 LEDs (2 red, 2 yellow, 3green). Change resistors to select voltage ranges and indicated steps: 5V or 8V in 1/4V steps or 12V in 1/4, 1/2 or 1V steps. All parts included. VM-1

L: 2-3/4" **W:** 1-7/16" **H:** 3/8" **WT:** .2

STOCK #	DESC.	1EA	5+EA
4210-RB	Battery Monitor Kit	$7.95	$6.95

TEMPERATURE CONTROLLER KIT



Circuit output is open collector transistor that sinks up to 80mA to operate external relay (NOT SUPPLIED). Holds relay closed until temperature rises to adjustable set point. Range Approx. -20 to +300°F".7.5-15V DC Operation. TG-2D

L: 2" **W:** 1-5/16" **H:** 1/2" **WT:** .2

STOCK #	DESC.	1EA	5+EA
5289-RB	Tem. Control Kit	$7.75	$6.95

WATER DETECTOR KIT

555 Osc. circuit drives speaker (INCLUDED) to sound alarm when water level rises on remote sensor board and changes the conductivity between the 2 contacts. 6-12V DC Operation. Main Board .8" X .75" Sensor board 1.25" sq. WD2

WT: .4

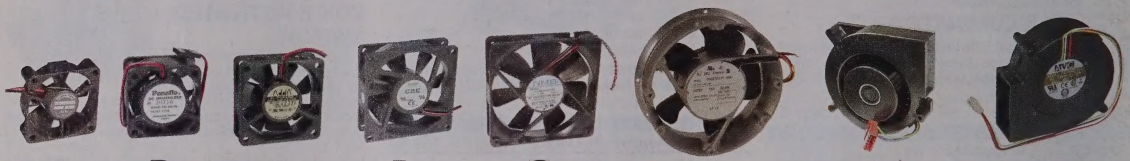
STOCK #	DESC.	1EA	5+EA
5292-RB	Water Detector Kit	$9.95	$8.95

NEW FANS
THERMOCOOL AC FANS

A B C D E F G H I

UL/TUV/CE RoHS Compliant

STOCK#	FIG.	MFG.	P/N	DIMN.	VOLTS/AMP	CFM	NOISE	BEARING	CONNECT	APPROVAL	WT	1EA	12+EA
17771-FN	A	THERMOCOOL	G8025HAS	3-1/8 SQ X 1	125AC/.13	23	30	SLV.	WIRE	uULc/TUV/CE	.6	$9.95	$8.95
17772-FN	B	THERMOCOOL	G8038HAS	3-1/8 SQ X 1-1/2	125AC/.14	28	33	SLV.	WIRE	uULc/TUV/CE	.6	$14.95	$12.95
17773-FN	C	THERMOCOOL	G9225HAS	3-5/8 SQ X 1	125AC/.14	34	40	SLV.	TERMINALS	uULc/TUV/CE	.5	$9.95	$8.95
17774-FN	D	THERMOCOOL	G12025HAS	4-11/16 SQ X 1	125AC/.20	66	42	SLV.	TERMINALS	uULc/TUV/CE	.75	$9.95	$8.95
17775-FN	E	THERMOCOOL	G12038HAS	4-11/16 SQ X 1-1/2	125AC/.28	95	48	SLV.	TERMINALS	uULc/TUV/CE	1.1	$12.95	$10.95
17776-FN	E	THERMOCOOL	G12038MAB	4-11/16 SQ X 1-1/2	125AC/.22	85	44	BALL	TERMINALS	uULc/TUV/CE	1	$15.95	$12.95
17777-FN	E	THERMOCOOL	G12038MAS	4-11/16 SQ X 1-1/2	125AC/.22	85	44	SLV.	TERMINALS	uULc/TUV/CE	1.1	$11.95	$9.95
17778-FN	F	THERMOCOOL	G13538HAS	5-5/16 SQ X 1-1/2	125AC/.34	122	53	SLV	WIRE	uULc/TUV/CE	1.2	$14.95	$12.95
17779-FN	G	THERMOCOOL	G15050HAS	6 SQ X 2	125AC/.40	198	58	SLV	WIRE	uULc/TUV/CE	1.9	$22.95	$19.95
17780-FN	H	THERMOCOOL	G17050HASB	6-3/4 RND X 2	125AC/.40	198	59	BALL	TERMINALS	uULc/TUV/CE	1.8	$22.95	$19.95
17781-FN	I	THERMOCOOL	G17050HAST	6-3/4 X 6 X 2	125AC/.40	198	59	BALL	TERMINALS	uULc/TUV/CE	1.9	$22.95	$19.95



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MISC. DC FANS

PICTURES ARE REPRESENTIVE OF THE STYLE AND ARE NOT EXACT

VISIT WWW.MPJA.COM, ENTER STOCK # TO SEE ACTUAL PICTURE

STOCK#	FIG.	MFG.	P/N	DIMN.	VOLTS/AMP	CFM	NOISE	BEARING	CONNECT	APPROVAL	WT	1EA	12+EA
18043-FN	D	COMAIR	ST05B3	3-1/8" SQ X 1-1/4"	5DC/.58	34	41	HYD	9" LEADS	UL/CSA	.42	$5.95	----
15357-FN	C	ADDA	ADD4050HB-G70	1-9/16"SQ X 3/8"	5DC/.19	6.7	25	BALL	11" LEADS	ULcan/us/ TUV	.04	$2.95	$2.49
18488-FN	B	DELTA	1AFB0312MD	1-3/16" X 3/8"	12DC/.15	3.5	25	BALL	3" LEADS	UL/CSA/VDE/CE	.02	$3.95	CALL
18489-FN	B	DELTA	1AFB0412MD	1-9/16" X 3/4"	12DC/.14	8.1	24.5	BALL	12" LEADS	UL/CSA/VDE/CE	.02	$3.49	$2.95
12773-FN	A	T&T	MW-510H12C	2" SQ X 3/8"	12DC/.14	9	27	BALL	10" LEADS	UL/TUV/CE	.05	$1.65	$1.49
17526-FN	C	JAMICON	JF0625S1L	2-3/8" SQ X 1	12DC/.17	17	28	SLV	4" LEADS	ULcan/TUV	.13	$2.95	$2.50
15841-FN	D	JAPAN SERVO	PUDC12Z4-042	3-1/8" X 1"	12DC/.16	42	37	BALL	14" LEADS	UL/CSA/TUV	.2	$3.95	$3.49
15717-FN	D	AROMAT	AIF80	3-1/8" SQ X 1"	12DC/.07	-	-	BALL	8" LEADS	UL/CSA	.23	$2.95	$2.49
18596-FN	D	DELTA	FFB0812VHE Stall Sensor Output	3-1/8" SQ X 1-1/2"	12DC/.57	57	45	BALL	9" LEADS	UL/CSA/VDE	.4	$3.95	CALL
16724-FN	D	COOLTRON	FD8025S12W3-17	3-1/8" SQ X 1"	12DC/.083	25.6	22	SLV	10" LEADS	ULcan/us/ TUV	.15	$1.49	----
18223-FN	D	JAPAN SERVO	PUDC12Z7RP Stall Sensor Output	3-1/8" SQ X 1"	12DC/.16	42	35	BALL	10" LEADS	UL/CSA/TUV	.2	$3.95	CALL
18049-FN	D	PANASONIC	FBA09A12H	3-5/8" SQ X 1"	12DC/.29	57	35	HYD	9" LEADS	UL/CSA	.22	$5.95	----
18088-FN	D	DELTA	FFB0912VHE-R00 Stall Sensor Output	3-5/8" SQ X 1-1/2"	12DC/.75	85	47.5	BALL	11" LEADS	UL/CSA/VDE/CE	.42	$3.95	----
16543-FN	D	AVC	C9025S12H Stall Sensor Output	3-5/8" SQ X 1"	12DC/.3	52	34	SLV	6" LEADS	UL/CSA/TUV/CE	.16	$3.95	$3.50
18222-FN	G	JAPAN SERVO	CNDC12Z7RP Stall Sensor Output	4-11/16" SQ X 1-1/2"	12DC/.71	124	49	BALL	10" LEADS	UL/CSA/TUV	.6	$4.95	$3.95 (40)
18221-FN	G	JAPAN SERVO	PADC12X7P Stall Sensor Output	6-3/4" SQ X 2"	12DC/1.9	250	59	BALL	10" LEADS	ULcan/us/ TUV	1.6	$19.95	$17.95
18016-FN	J	DELTA	BBF1224HE	4-11/16" SQ X 1-3/8"	24DC/.5	23	46	BALL	9" LEADS	UL/CSA/VDE/CE	1	$4.95	----
17194-FN	C	SANYO	109P0624HE7K3 Dual speed fan	2-3/8" SQ X 5/8"	24DC/.06	13.5/6.8	-	BALL	4" LEADS	-	.13	$3.95	$3.75
18601-FN	B	NMB	1606KL-05-B50	1-9/16" SQ X 5/8"	24DC/.08	8	34	BALL	8" LEADS	UL/CSA/VDE/CE	.05	$1.95	----
18206-FN	B	DELTA	DFB-0624H	2-3/8" SQ X 1"	24DC/.11	27	-	BALL	4" LEADS	UL/CSA	.16	$1.95	----
18593-FN	C	JAPAN SERVO	PUDC24H4R	3-1/8" SQ X 1"	24DC/.16	47	40	BALL	9" LEADS	UL/CSA/TUV	.2	$3.95	CALL
18346-FN	D	SUNON	KDE2409PTV1 Stall Sensor Output	3-5/8" SQ X 1"	24DC/.08	49	34	MGLEV	10" LEADS	UL/CSA/TUV	.22	$2.95	$2.49
15718-FN	J	JAPAN SERVO	CBDC24K4-601	5" SQ X 1"	24DC/.55	30	-	BALL	5" LEADS	-	.66	$4.95	$4.49(5)

FAN GUARDS

A B C D E F G H

PICTURES ARE REPRESENTIVE OF THE STYLE AND MAY NOT BE EXACT

STOCK#	FIG.	FAN SIZE	STYLE	MOUNTING	MAT.	FINISH	WT.	1EA	10+EA
18383-FN	A	1-9/16"/40MM	OFFSET	4 CORNERS	STEEL	CHROME	.01	$0.99	$0.89
18384-FN	B	2-3/8"/60MM	OFFSET	4 CORNERS	STEEL	CHROME	.03	$0.99	$0.89
8660-FN	C	2-3/8"/60MM	OFFSET	4 CORNERS	STEEL	BLACK	.03	$1.25	$0.99
18386-FN	D	3-1/8"/80MM	OFFSET	4 CORNERS	STEEL	CHROME	.04	$1.25	$0.99
18387-FN	E	3-5/8"/90MM	OFFSET	4 CORNERS	STEEL	CHROME	.05	$1.25	$0.99
18388-FN	F	4-11/16"/120MM	OFFSET	4 CORNERS	STEEL	CHROME	.08	$1.39	$1.25
17815-FN	G	5"/127MM	OFFSET	4 CORNERS	STEEL	CHROME	.13	$1.29	$0.99
18390-FN	H	6-3/4"/172MM	OFFSET	4 CORNERS	STEEL	CHROME	.1	$1.50	$1.29

4-11/16" 12V COMPAQ SERVER FAN

MFG: NIDEC FOR COMPAQ
MODEL: TA450DC
P/N: C33211-71A
Compaq: 122394-006
Volts: 12VDC
Current: .49A
CFM: NA
Replacement fan used in Proliant 3000 servers. Plastic blades & housing. Thermistor controlled Variable speed fan with stall sensor out. UL/CSA/CE listed. 15" leads with 5 pin Compaq connector.
Sq: 4-11/16" **T:** 1-1/2" **WT:** .7

STOCK #	DESC.	1EA
16718-FN	4-11/16" Compaq Fan	$4.95

12VDC SERVER FAN

MFG: SUNON
P/N: PMD1204PPBX-A
Volts: 12VDC
Current: 1.23A
CFM: 26.7
1-U Server fan with dual counter rotating plastic blades in single plastic housing. 66.6dB noise. Ball bearings. Each motor has separate 3" leads. UL/canada/usa/TUV/CE listed. NO INFOAVAIL.
SQ: 1-9/16" **L:** 2-3/16" **WT:** .19

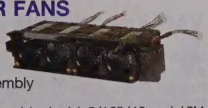
STOCK #	DESC.	1EA
18476-FN	12V Sunon Server Fan	$4.95

24VDC BLOWER

MFG: JAPAN SERVO
P/N: E1540H24BYAZ-10
Input: 24VDC
Current: 1A
CFM: NA
Ball bearing blower With Plastic body & blades. 50+ db Noise, 3260RPM, 3.58"dia. intake, 1.32" X 1.34 Outlet. 2 in. leads to 2 Pin male header connector. UL/CSA/TUV Listed.
L: 6" **W:** 5-7/8 " **T:** 1-9/16" **WT:** .9

STOCK #	DESC.	1EA
18207-FN	24VDC 1A Blower/Baffle	$4.95

12VDC SERVER FANS



MFG: AVC for H/P
P/N: DB0404812U
Volts: 12 VDC
Current: 1.14A/subassembly
CFM: 25+/subassembly
Server fan unit has 4 removable dual 1-9/16" (40mm) 12V fan subassemblies. Each subassembly consists of a 3 blade fan mechanically mounted in series with a 5 blade fan and cannot be separated. Both sets of fan leads brought out to a connector (NO Mate available). 2" leads. All fans have stall sensor output. UL/CSA/TUV/CE listed
L: 7-3/4" **H:** 1-9/16" (40mm) **D:** 3-1/8" **WT:** .83

STOCK #	DESC.	1EA
15839-FN	Server 12V Fan Assembly	$9.95

12VDC TURBO FAN

MFG: DELTA
P/N: GFB0412SHE-FOO
Volts: 12VDC
Current: .68A
CFM: 22.25
1-U Server fan with dual counter rotating plastic blades in single plastic housing. 57dB noise. Ball bearings. Each motor has separate 3" leads. Tach. output for each. UL/CSA/VDE/CE listed.
L: 1-31/32" **W:** 2" **H:** 1-9/16" **WT:** .11

STOCK #	DESC.	1EA
18470-FN	12V Delta Server Fan	$3.95

12VDC 3-1/8" FAN

MFG: JAPAN SERVO
P/N: DC PIXIE25 (PUDC12Z4-042)
Volts: 12 VDC
Current: 160mA
CFM: 42
Plastic blades & housing. 37db noise. Ball bearing. UL/CSA/TUV listed. 14" leads.
Sq: 3-1/8" **T:** 1" **WT:** .2

STOCK #	DESC.	1EA	12+EA
15841-FN	12V Pixie 3-1/8" Fan	$3.95	$3.49

24VDC BLOWER

MFG: JAPAN SERVO
P/N: E1540X24BYAZ-16
Input: 24VDC
Current: 1.2A
CFM: NA
Specifications/Features:
Ball bearing blower With Plastic body & blades. 50+ db Noise . 4500RPM, 2.58"dia. intake, 1.58" X 1 Outlet. 2 in. leads to 2 Pin male header connector. TUV Listed.
L: 6" **W:** 5-7/8 " **T:** 1-9/16" **WT:** .92

STOCK #	DESC.	1EA
18208-FN	24VDC 1.2A Blower	$4.95

12VDC BLOWER

MFG: JAPAN SERVO
P/N: FBDC12H7P-949
Volts: 12VDC
Current: .68A
CFM: 23
Ball bearing blower With Plastic body & blades. 56 db Noise, 2 pulse/RPM Tach output. 2.12"dia. intake, 2.12" X 1.1 Outlet. 12 in. leads. UL/CSA/TUV Listed.
L: 3-3/4" **W:** 3-5/8 " **T:** 1-5/16" **WT:** .32

STOCK #	DESC.	1EA
18224-FN	12VDC Japan Servo Blower	$4.95

24VDC BLOWER

MFG: JAPAN SERVO (NIDEC)
P/N: SCBD24K7
Voltage: 24VDC
Current: 42mA
CFM: 34
Metal back, Plastic blades & housing. 51db noise, Ball bearing. Outlet: 2-7/16" X 1" UL/CSA listed. 4" leads.
L: 5" **W:** 5" **T:** 1-1/2" **WT:** .64

STOCK #	DESC.	1EA
18592-FN	Japan Servo 24V Blower	$4.95

12VDC FAN

MFG: JAPAN SERVO
P/N: SCNDM12B4
Volts: 12VDC
Current: .5A
CFM: 106
Unique Square/Round fan. Square side is same size & mounting as a Std. 4.7" (120mm) fan, Other side is 5" (128mm) Dia. Plastic blades & housing. 40dB noise. Ball bearing. 9" leads. UL/CSA/TUV listed.
SQ: 4-11/16"/5" Dia. **T:** 1-1/2 **WT:** .6

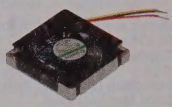
STOCK #	DESC.	1EA
18015-FN	12VDC Japan Servo Fan	$5.95

12VDC 3-1/8" FAN

MFG: SUNON
P/N: KD1208PTS1-6
Volts: 12VDC
Current: .22A
CFM: 41
USED. Plastic blades & housing. 34dB noise. Sleeve bearings. 9" leads. UL/canada/us/TUV listed.
SQ: 3-1/8" **T:** 1" **WT:** .24

STOCK #	DESC.	1EA
18061-FN	Used Sunon 12V Fan	$1.49

LAPTOP FAN



MFG: SUNON
P/N: GB0545AFV1-8
Volts: 5VDC
Current: .07A
CFM: 2.2
Laptop mini blower with plastic impeller & metal housing. Tach. output lead (4Pulse/revolution) 29 db noise. Vapo bearing . 1.5" " leads. UL/canada/usa/TUV listed.
SQ: 1-3/4 (45mm)" **T:** 3/8" (9mm) **WT:** .05

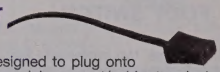
STOCK #	DESC.	1EA	12+EA
17866-FN	Sunon Laptop Blower	$4.95	$3.95

24VDC 3-1/8" FAN

MFG: COMAIR/ROTRON
P/N: Flight II 80 FE24B3
Volts: 24VDC
Current: .09A
CFM: 37
USED. Plastic blades & housing. 36.2dB noise. Ball bearings. 11" leads. UL/CSA listed.
SQ: 3-1/8" **T:** 1" **WT:** .3

STOCK #	DESC.	1EA
18089-FN	Used Comair 24V Fan	$3.95

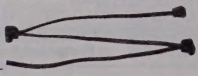
12" STRAIGHT FAN CORD



18/2 ZIP Fan cord designed to plug onto most fans with .100in quick connect/solder terminals. Straight molded fan plug on one end.
L: 12" **WT:** .03

STOCK #	DESC.	1EA	12+EA
17178-FN	12" Straight Fan cord	$0.89	$0.79

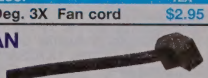
FAN CORD FOR 3 FANS



18/2 ZIP Fan cord designed to plug onto most fans with .100in quick connect/solder terminals. Three 90 Deg. angled molded fan plugs separated by 7-1/2 in. of cord. 8in. of pig tail to 1st. fan.
L: 24" **WT:** .06

STOCK #	DESC.	1EA
18057-FN	24" 90 Deg. 3X Fan cord	$2.95

12" ANGLED FAN CORD



18/2 ZIP Fan cord designed to plug onto most fans with .100in quick connect/solder terminals. 45 Deg. angled molded fan plug on one end.
L: 12" **WT:** .03

STOCK #	DESC.	1EA	12+EA
17180-FN	12" 45Deg. Fan cord	$0.89	$0.79

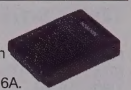
12V BATTERY SWITCH

AMP Rating listed are NON-SWITCHING
SPST-NO Heavy Duty 12VDC battery cut-off switch with removable actuator "key" for security & safety.
EXTRA "KEY" available

WT: .3

STOCK #	DESC.	AMP	1EA	5+EA
8373-SW	Battery Switch	500	$12.95	$11.75
17285-SW	Battery Switch	100	$10.95	$10.25
15433-SW	Extra "Key"		$1.95	----

FOOT SWITCH

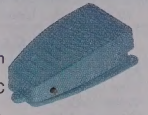


Plastic case, General use foot switch ULusa/canada listed Switch.
Contacts: SPST-NO 125/250VAC @ 6A.
Actuation pressure: Approx. 3 lbs.
Cord Not Included

L: 4-1/8" **W:** 2-7/8" **H:** 1" **WT:** .23

STOCK #	DESC.	1EA
18151-SW	General Use Foot Switch	$6.95

FOOT SWITCH



Metal case, Medium duty foot switch for industrial use.
Contacts: SPDT 380VAC/220VDC @ 5A.
Actuation pressure: Approx. 4lbs.
Cord Not Included

L: 5-1/4" **W:** 2-5/8" **H:** 1-5/8" **WT:** .34

STOCK #	DESC.	1EA
18152-SW	Medium Foot Switch	$7.95

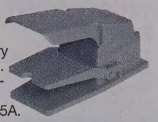
ROCKER FOOT SWITCH

Metal case, Rocker action Heavy duty foot switch for industrial use. Momentary in either direction, spring return to center OFF.
Contacts: DPDT Mom-Off-Mom 380VAC/220DC @ 5A
Actuation pressure: Approx. 2.5lbs. either side
Cord Not Included

L: 5-5/8" **W:** 2-3/4" **H:** 2" **WT:** .7

STOCK #	DESC.	1EA
18153-SW	Rocker Foot Switch	$13.95

FOOT SWITCH

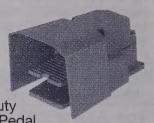


Metal case, top protected Heavy duty foot switch for industrial use. Pedal protected from dropped material. UL/CSA Listed Switch.
Contacts: SPDT 125/180VAC @ 15A. 1/4hp@ 250VAC
Actuation pressure: Approx. 4lbs.
Cord Not Included

L: 7-3/4" **W:** 3-7/8" **H:** 5" **WT:** 1.6

STOCK #	DESC.	1EA
18154-SW	Protected Foot Switch	$19.95

SAFETY FOOT SWITCH



Metal case, enclosed Heavy duty foot switch for industrial use. Pedal protected on 3 sides. UL/CSA/TUV/CE Listed Switch.
[Contacts:] SPDT 125/480VAC @ 15A. 1/4hp@ 250VAC
[Actuation pressure:] Approx. 4lbs.
Cord Not Included

L: 8-1/8" **W:** 5-7/8" **H:** 4-7/8" **WT:** 2.4

STOCK #	DESC.	1EA
18155-SW	Safety Foot Switch	$24.95

TIMER MODULE

Mr. Coffee clock/timer module. 115VAC input. Buttons to set clock/Brew start time, SPST relay connected between "LINE" and "HTR" (heater) Terminal by a wire lead. Relay contacts rated 10A@120VAC/30VDC. 4 digit Red LED display. Timer turns on relay, auto turn off after approx. 2hr. (not adjustable). "ON", "OFF", "AUTO" function switch.
"ON" energizes relay
"OFF" turns off relay
"AUTO" Turns on relay at the pre-set time.
.25" quick connect terminals.

H: 2-1/2" **W:** 2-1/4" **D:** 2-3/8" **WT:** .3

STOCK #	DESC.	1EA
16742-MI	Digital Coffee Timer	$3.99

SPST PUSH BUTTON SWITCH

MEC, SPST-NO super small PC board mount switch used as a Limit or sense switches in VCRs, Tape players, etc. 1/8" black plastic push button. Rated: < 10gm activation force, .2VA @ 24V DC.

L: 5/16" **W:** 3/8" **T:** 1/8" **WT:** .001

STOCK #	DESC.	1EA	5+EA
15567-SW	MEC P/B Switch	$0.25	$0.20

LEVER/ROLLER SNAP SWITCH

SPDT Lever/roller switch. Contacts rated: .1A @ 125VAC/30VDC. 1" lever requires 10gm force. .187" quick connect terminals. 2 hole mounting. UL/CSA Listed.

L: 1-3/16"(body) **W:** 5/8" **T:** 3/8" **WT:** .016

STOCK #	DESC.	1EA	10EA
18085-SW	Roller Micro Switch	$0.99	$0.89

MINI KEY SWITCH

MFG: SIEMENS
PN: V42266-C4499-A162
Mini SPST Key Switch Rated: .1VA@ 125VAC. 6 Dimple lock with 2 plated brass keys. 90deg. Index, key removable in both positions. ALL KEYED ALIKE. P.C Board mounting. Includes 2 keys.

SQ: 19mm **HT:** 19mm (Ex Pins) **WT:** .04

STOCK #	DESC.	1EA
18071-SW	Mini Key Switch	$3.95

MICRO RIGHT ANGLE PUSH BUTTON SWITCH

Right angle PC mount, SPDT-NO micro push button switch with black plastic actuator. Contacts rated .4VA.
Mounting: P.C. Board **WT:** .001

STOCK #	DESC.	1EA	25+EA
12505-SW	Rt. Ang. P/B Switch	$0.75	$0.69

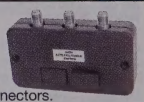
OPTICAL SWITCH

3 way bi-directional optical switch with 3.5mm optical in/outputs. Select from 3 different audio sources, or receivers. Includes TOSLINK to 3.5mm optical adapters.

WT: .23

STOCK #	DESC.	1EA
15189-FO	Fiber Optic Switch	$4.99

DELUXE COAX A/B SWITCH



A/B Push Button switch, 75 Ohm inputs/output with "F" female connectors.

WT: .4

STOCK #	DESC.	1EA	5+EA
7018-TV	Deluxe A/B Switch	$5.95	$4.95

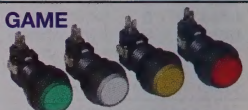
PROXIMITY SENSOR

MFG: PEPPERL & FUCHS
P/N: NBB%-F33-A0
Power: 10-30DC
Output: NPN Transistors: 1-N.O. 1-N.C. 200mA Max. Load
Sense Range: 5mm
Industrial, Inductive sensor for process control. 6ft. 4 wire cable with stripped end. Plastic flat rectanglar case with 2 mtg. holes. Short circuit & Rev. polarity protected.

L: 2" **W:** 1" **T:** 13/32" **WT:** .24

STOCK #	DESC.	1EA
17637-SW	Pepperl Sensor	$19.95

LARGE P/B GAME SWITCHES

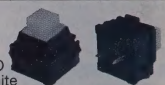


Lighted, large plastic body, panel mount SPDT push button switches. Mount in a 15/16" hole. 1/4" quick connect terminals. Switch Contacts: 5A @ 250 VAC. Replaceable wedge base Lamp: rated 12V @ 3W,

L: 2-1/2" **WT:** .065

STOCK #	DESC.	1EA	20+EA
17051-SW	Green Game Switch	$2.95	$2.49
17052-SW	White Game Switch	$2.95	$2.49
17053-SW	Yellow Game Switch	$2.95	$2.49
17054-SW	Red Game Switch	$2.95	$2.49

SPST PUSH BUTTON SWITCH



Keyboard/Keypad, SPST-NO push button switch with white .25in. Sq. plastic actuator. PC terminals, can be face plate mounted in .578in. Sq. hole. Contacts rated .1VA.

H: 11/16" Body **W:** 5/8" **L:** 43/64"
Mounting: P.C. Board /Face Plate **WT:** .005

STOCK #	DESC.	1EA	100+EA
18018-SW	Keypad P/B Switch	$0.29	$0.25

DPDT PUSH BUTTON SWITCH

Right angle PC mount, DPDT Alternate action (Push On/Push Off) push button switch with black .25in. Dia. plastic actuator. Contacts rated .4VA.
Pin Spacing: .125" Row Spacing .087"
Mounting: P.C. Board **L:** 1-1/8" O/A **WT:** .005

STOCK #	DESC.	1EA	100+EA
18017-SW	Rt. Ang. P/B Switch	$0.29	$0.25

FOOT SWITCH

FATAR PS-100 SPST-NO foot switch used with musical keyboards etc. Low current/Voltage "Sustain Pedal" Designed for Casio. Fatar Studios, Korg, & Ensonic etc. Hard plastic with rubber overcoat 6ft. cord with 1/4in. mono Phone plug on end.

W: 3-1/2" **H:** 1-1/2" **D:** 4" **WT:** .6

STOCK #	DESC.	1EA
18029-SW	"Sustain" Switch	$14.95

VACUUM SWITCH

MFG: GOLDTECH
P/N: PS100-A1310-A002
Range: Fixed, .07Pa/.0025PSI Decreasing
Ports: 1 High/1Low; Barbed for 1/4" or 3/8" ID
Switch: SPDT125VA/120VAC; 3A 120VAC/30VDC
Specifications/Features: Vertical mount vacuum switch for sensing pressure drops across fans, vents, filters, dampers etc. Max pressure: 6Kpa (8.5 PSI). .25" quick connect terminals. Silicone diaphram, PPO Housing. UL/canada/us Listed

H: 3-7/8" **W:** 3-1/8" **T:** 2" **WT:** .17

STOCK #	DESC.	1EA
18257-SW	Vacuum Switch	$8.95

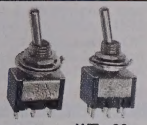
UL MINI TOGGLE SWITCH

UL Listed Mini toggle switch, Mounts in a 1/4" hole with Solder tabs. Rated 5 Amps @ 125VAC.

WT: .02

STOCK #	STYLE	DESC.	1EA	100+EA
5005-SW	SPST	On-None-Off	$0.75	$0.66
5006-SW	SPDT	On-None-On	$0.35	$0.27
16071-SW	SPDT	On-None-(Mom)	$0.58	$0.44
5010-SW	SPDT	On-Off-On	$0.38	$0.29
5009-SW	SPDT	(Mom)-Off-(Mom)	$0.58	$0.44
16072-SW	SPDT	On-Off-(Mom)	$0.58	$0.44
5011-SW	DPDT	On-None-On	$0.41	$0.30
16073-SW	DPDT	On-None- (Mom)	$0.69	$0.52
5014-SW	DPDT	On-Off-On	$0.46	$0.35
16074-SW	DPDT	On-Off-(Mom)	$0.69	$0.52
5016-SW	DPDT	(Mom)-Off-(Mom)	$0.69	$0.52

MINI TOGGLE SWITCH



Mini toggle switch, Mounts in a 1/4" hole with Solder tabs. Rated 5 Amps @ 125VAC.

WT: .02

STOCK #	STYLE	DESC.	1EA	100+EA
16075-SW	3PDT	ON-None-On	$0.74	$0.55
16076-SW	3PDT	ON-Off-On	$0.88	$0.66
16077-SW	4PDT	ON-None-On	$1.42	$1.07
16078-SW	4PDT	ON-Off-On	$1.75	$1.31

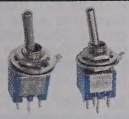
UL SUB-MINI TOGGLE SWITCH

UL Listed Sub-Mini toggle switch, Mounts in a 1/8" hole with Solder tabs. Rated 1 Amp @ 250VAC.

WT: .02

STOCK #	STYLE	DESC.	1EA	200+EA
16110-SW	SPST	On-Off	$0.45	$0.35
16111-SW	SPDT	On-None-On	$0.49	$0.39
16112-SW	SPDT	On-Off-On	$0.59	$0.49

SUB-MINI TOGGLE SWITCH



Sub-Mini toggle switch, Mounts in a 1/8" hole with Solder tabs. Rated 3 Amps @ 125VAC.

WT: .02

STOCK #	STYLE	DESC.	1EA	100+EA
12213-SW	SPST	On-Off	$0.75	$0.60
5017-SW	SPDT	On-None-On	$0.43	$0.32
12214-SW	SPDT	On-Off-On	$0.54	$0.40
12215-SW	DPDT	On-Off-On	$0.72	$0.54

THOUSANDS more Items on www.mpja.com

12V LIGHTED TOGGLE SWITCHES

SPST, 12VDC lighted standard sized toggle switches, Mounts in a 1/2in. hole with .25" Quick Connect terminals. Rated 10 Amps @ 12VDC. Lamp is internally connected between the load contact (ACC) & and "Ground" terminal
Terminal "+" = +12V in
Terminal "ACC" = Load
Terminal "Gnd" = - 12V (common)

H: 2-1/2" O/A **L:** 1" **W:** 11/16" **WT:** .02

STOCK #	DESC.	1EA	10+EA
7125-SW	Red Lighted Toggle	$1.95	$1.54
7126-SW	Yellow Lighted Toggle	$1.95	$1.54
7127-SW	Green Lighted Toggle	$1.95	$1.54

FULL SIZE 15A TOGGLE SWITCH

Standard toggle switches, Mounts in a 1/2" hole. Rated: 10 Amps @ 250VAC. 15A @125VAC. Screw terminals.

WT: .03

STOCK #	STYLE	DESC.	1EA	100+EA
16081-SW	SPDT	On-None-On	$0.88	$0.66
16082-SW	SPDT	On-Off-On	$0.95	$0.71
16083-SW	SPDT	On-None-(Mom)	$1.05	$0.79
16084-SW	SPDT	On-Off-(Mom)	$1.05	$0.79
16085-SW	SPDT	(Mom)-Off-(Mom)	$1.05	$0.79
16086-SW	DPDT	On-None-On	$1.24	$0.93
16087-SW	DPDT	On-Off-On	$1.24	$0.93
16088-SW	DPDT	On-None-(Mom)	$1.49	$1.12
16089-SW	DPDT	On-Off-(Mom)	$1.49	$1.12
16090-SW	DPDT	(Mom)-Off-(Mom)	$1.49	$1.12

HEAVY DUTY 20A TOGGLE SWITCHES

Standard toggle switches, Mounts in a 1/2" hole. Rated: 15 Amps @ 250VAC. 20A @125VAC. Screw terminals.

WT: .03

STOCK #	STYLE	DESC.	1EA	100+EA
12216-SW	SPST	On-None-Off	$0.95	$0.89
12217-SW	SPDT	On-None-On	$1.15	$0.90
12218-SW	SPDT	On-Off-On	$1.50	$1.22
12219-SW	DPST	On-None-Off	$1.10	$0.94
12220-SW	DPDT	On-None-On	$1.80	$1.44
12221-SW	DPDT	On-Off-On	$1.95	$1.56

FULL TOGGLE WATERPROOF BOOT

Molded rubber toggle boot with molded in nut. For full sized toggle switches16081-16090 & 12216-12221

Thread: M12X0.75 **WT:** .009

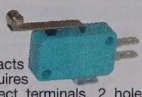
STOCK #	DESC.	1EA	10EA
16312-SW	Full Toggle Boot	$2.49	$2.25

MINI TOGGLE WATERPROOF BOOT

Molded rubber toggle boot with molded in nut & "O" ring panel seal for mini toggle switches.
WILL NOT FIT 5016 Switches.
Thread: M6X0.75 **WT:** .005

STOCK #	DESC.	1EA	10EA
16311-SW	Mini Toggle Boot	$1.95	$1.75

LEVER/ROLLER SNAP SWITCH



SPDT Lever/roller switch. Contacts rated: 5A @ 250VAC 1" lever requires 35gm force. .187" quick connect terminals. 2 hole mounting. CE Listed.

L: 1-1/8" (body) **W:** 5/8" **T:** 3/8" **WT:** .015

STOCK #	DESC.	1EA	50EA
16315-SW	Roller Micro Switch	$1.25	$0.99

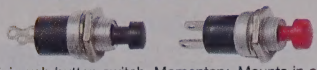
MINI SNAP SWITCH WITH ROLLER

SPDT micro switch with roller. Contacts rated 3A @ 125/250VAC. 55gm actuation force. Solder terminals. 2 mtg. holes. 3/4" lever.

L: 3/4" (body) **W:** 3/8" **T:** 1/4" **WT:** .005

STOCK #	DESC.	1EA	10EA
16317-SW	Mini Snap Switch	$0.89	$0.79

PUSH BUTTON SWITCH



Mini push button switch, Momentary, Mounts in a 1/4" hole with Solder tabs. Rated 3 Amps @ 125VAC.

WT: .01

STOCK #	STYLE	DESC.	1EA	100+EA
5019-SW	SPST	Normally Open Red	$0.29	$0.26
5020-SW	SPST	Normally Closed Blk	$0.29	$0.26

FULL SIZE TOGGLE SAFETY COVERS

Plastic, Snap action safety covers for standard (1/2" Dia.) sized toggle switches. Cover must be opened to activate switch. Closing cover forces switch to original position. **WT:** .02

STOCK #	DESC.	1EA	10+EA
16100-SW	Red Safety Cover	$0.69	$0.59
16101-SW	Green Safety Cover	$0.69	$0.59
16102-SW	Blue Safety Cover	$0.69	$0.59
16103-SW	Yellow Safety Cover	$0.69	$0.59
16104-SW	Purple Safety Cover	$0.69	$0.59
16105-SW	Black Safety Cover	$0.69	$0.59
16106-SW	Clear Safety Cover	$0.69	$0.59
16107-SW	Chrome Safety Cover	$0.69	$0.59

MISC. TOGGLE SWITCHES

5001-SW 5004-SW 12223-SW

Full size toggle switch, Mounts in a 1/2" hole. Amps Ratings are @ 125VAC. **WT:** .07

STOCK #	STYLE	DESC.	AMP	1EA	100+EA
5001-SW	SPST	On-None-Off	6	$1.25	$1.00
5004-SW	DPDT	On-Off-On	10	$1.95	$1.75
12223-SW	SPST	On-None-Off	10	$1.25	$0.96

STANDARD TOGGLE SWITCHES

Standard toggle switch, Mounts in a 1/2" hole with Solder tabs. Ratings are @ 125VAC.

WT: .03

STOCK #	STYLE	DESC.	AMP	1EA	100+EA
5002-SW	SPST	On-None-Off	4	$0.75	$0.65

LARGE PUSHBUTTON SWITCH

SPST-Normally open, Full size, metal body, Pushbutton switch, Mounts in a 3/4" hole. Rated 2A @ 250VAC/4A @ 125VAC. Screw Terminals.

Dia: 7/8" **Mtg.:** 3/4" hole **WT:** .05

STOCK #	DESC.	1EA	10+EA
16093-SW	Push Button Switch	$2.02	$1.77

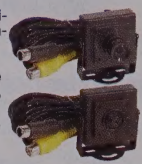
SNAP SWITCH

SPST-NO Cherry switch. Contacts rated: 15A @ 125/250VAC. Button requires approx. 250gm force. solder terminals. 2 hole mounting. UL/us/canada Listed.

L: 1-1/16"(body) **W:** 5/8" **T:** 3/8" **WT:** .011

STOCK #	DESC.	1EA	10EA
18084-SW	Cherry Snap Switch	$0.99	$0.79

COLOR MINI CAMERAS



Small cameras with metal case. Connects to any monitor or VCR with A/V inputs. Extension cable available.
Element1/4in. Color, CCD
Lens:Fixed 3.6mm/3.7mm pinhole
Scanning: EIA 525 lines- 60 fields,
S/N Ratio: >46dB
Auto shutter: 1/60-1/100,000 Sec.
Resolution: 380 TV lines,
Sensitivity: 2lux. @ F: 2
Video output: NTSC std.
75 Ohm, 2/I interlace1.0V P/P composite video
Connections: 12" Video & Power leads
Video: RCA Female, Power: Male Coaxial
Power: 12VDC +-.5V @ 100mA

Sq: 1-3/8"W/O bracket **D:** 1-3/8"max **WT:** .4

STOCK #	DESC.	1EA	5+EA
14383-ST	3.6mm Clr. Camera	$89.95	$79.95
14384-ST	Pinhole Clr. Camera	$99.95	$89.95

B/W MINI CAMERAS WITH AUDIO

Small cameras with metal case. Connects to any monitor or VCR with A/V inputs. Extension cable available.
With bracket & power supply.
Element:1/3in. Monochrome, CCD
Lens: Fixed 3.6mm/3.7mm pinhole
Scanning: EIA 525 lines- 60 fields
Auto shutter: 1/60-1/100,000 Sec.
S/N Ratio: >46dB
Resolution: 380 TV lines
Illumination: Ambient light
Sensitivity: .1lux. @ F: 2
Power: 12VDC +-.5V @ 110mA
Video output: EIA std.
75 Ohm, 2/I interlace 1.0V P/P composite video
Audio: 2V P/P max
Connections: 12" Video,audio & Power leads
Video/Audio: RCA Female Power: Male Coaxial

Sq: 1-3/16"W/O bracket **D:** 1-3/16"max **WT:** .4

STOCK #	DESC.	1EA	5+EA
14248-ST	3.6mm Clr. Camera/Audio	$49.95	$44.95
14249-ST	Pinhole Clr. CameraAudio	$49.95	$44.95

ENCLOSED B/W CAMERA

1/3" CCD, Fixed 3.6mm pinhole lens. Scanning 525 lines-60 feilds S/N ratio:>35dB, Resolution: 400 TV lines, Sensitivity: .1 lux @ F:1.2, Video output : EIA
75 Ohm, 2/1 interlace 1.0V P/P composite video. Metal housing with removable mounting bracket. Auto iris/ shutter: 1/60/-1/100,000 sec. Connections: 18" leads Video/ RCA Female, Power/ Coaxial. Power 12Vdc +-1V @ 120mA. Plug supply included.

Sq: 1" W/O bracket" **D:** 9/16" **WT:** .17

STOCK #	DESC.	1EA	5EA
12018-ST	Enc. B/W Camera	$59.95	$54.95

B/W WEATHERPROOF CAMERA

Weatherproof 1/3in. CCD black/white bullet camera with 4.3mm lens. Auto Iris/ shutter, 380 lines Resolution. .1lux. Sensitivity. EIA std., 1.0V P/P composite video output. 12" leads with RCA connector for video & coaxial connector for power (9VDC @100mA) Plastic housing with 1/4-20 threaded insert in back. Includes wall mounting bracket & Power Pac. Connects to any monitor or VCR with A/V inputs.

L: 2-7/16" **DIA:** 13/16" **WT.** .27

STOCK #	DESC.	1EA	5EA
11612-ST	B/W Weather Camera	$89.95	$79.95

DVR/CAMERA FLASHLIGHT

Unique item for security applications. Combination of White LED Flashlight, a Mini Color Camera and a 4GB Recorder. USB interface for downloading to your computer. Two light levels for Close or Distance.
Camera:
640X480 1/4" Color CMOS
View Angle: 56deg.
DVR:
Size: 4GB
Interface: USB 2.0
Video: .AVI
File Size: 15MB/minute
Flashlight:
LED: 1W White
Color Temp: >5500
Power: Internal Li-Battery
Life: Approx. 3.5hr+
Charge Current: >800mA
Charge Time: 4hr. Max
Operating Current: Approx. 560mA
Enviromental:
Water resistance: IP65
Oper. Temp: 0-+50 C
Humidity: 15-80% RH
Includes Charger, lanyard, USB Cable

L: 7-5/8" **Dia:** 2.2" **Unit WT:** .8 **Ship WT:** 1.7

STOCK #	DESC.	1EA
18210-ST	Flashlight/DVR/Camera	$189.00

MINI B/W CAMERA WITH I/R LEDS

1/3in. CCD black/white board camera with 3.6mm lens. Field of view: 71° Horiz.; 53° Vert. Auto Iris/ shutter, 430 lines Resolution. .1lux. Sensitivity. EIA std., 1.0V P/P composite video output. 6in. wire leads with RCA jack for video & 5.5/2.1mm coaxial power (12VDC +-1V @120mA) I/R LEDs allows camera to "see" up to 5ft in total dark. Connects to any monitor or VCR with A/V inputs.

L:1-11/16" **W:**1-11/16" **D:**1-1/4" **WT.** .1

STOCK #	DESC.	1EA	5EA
11691-ST	I/R LED Camera	$49.95	$45.95

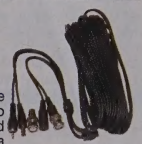
PRO BLACK & WHITE SECURITY CAMERA

1/3" silicon CCD, metal cased camera with connection for auto iris lens. C or CS (with adaptor) lens mount. Scanning: EIA 525 lines- 60 fields, .1 lux/F1.4 sensitivity. Auto shutter: 1/60-1/10,000sec with Auto Iris: Switch & 4pin connector. >380 line resolution. 75 Ohm, 2/1 interlace, 1.0V P/P composite video, S/N Ratio: >46dB. BNC jack for video out, Coaxial jack for power. Requires 12VDC @ 170mA. Connects to any monitor or VCR with A/V inputs. Plug power pac supplied. **Lens Not Included**

L: 4" **W:** 2" **H:** 2" **WT:** 2

STOCK #	DESC.	1EA	5EA
14363-ST	Pro Security Camera	$79.95	$74.95

CAMERA VIDEO/POWER CABLE



Siamese cable for cameras. Cable splits out 8" from ends into a video cable with a BNC male on one end and a RCA male on other and a power cable with a 2.1mm I/D coaxial power Plug on end (same end as video RCA) and a 2.5mm I/D power Jack on other. Includes a BNC Male to RCA Female adapter.

STOCK #	DESC.	WT.	1EA
15460-WI	25ft. Camera Cable	0.6	$6.95
15461-WI	50ft. Camera Cable1	.8	$9.95
15462-WI	100ft. Camera Cable	3.4	$17.95
15463-WI	150ft. Camera Cable	4.9	$20.95

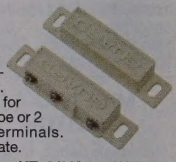
FIRE ALARM

UNITED SECURITY PRODUCTS FHS-24 Remote Signaling Device. Contains Audable & Xeon flash. Produces 96dB sound and approx. 1 flash every 3 seconds. Requires 24 VDC @ 65mA. Fits on a 4"Sq. X 1-1/2" deep electrical box. Red color, UL listed

W: 5-1/4" **H:** 4" **D:** 2" **WT:** 1.3

STOCK #	DESC.	1EA
18040-MI	24VDC USP Fire Alarm	$18.95

ALARM SWITCH

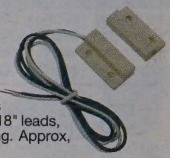


Security system door or window mag switch & Magnet. SPDT switch can be wired for NO or NC contacts. Foam tape or 2 hole mounting, Screw terminals. Approx, 1in. needed to activate.

L: 2-9/16" **W:** 5/8" **HT:** 9/16" **WT:** .06

STOCK #	DESC.	1EA
18548-SC	SPDT Security Mag Switch	$4.95

MINI ALARM SWITCH



Pigtail wired, security system door or window mag switch & Magnet. SPST-NC switch is held open by nearby magnet. 18" leads, Foam tape or 2 hole mounting. Approx, .5in. needed to release.

L: 1-1/8" **W:** 9/16" **HT:** 5/16" **WT:** .02

STOCK #	DESC.	1EA
18683-SC	Mini Security Mag Switch	$3.95

MOTION DETECTOR

Portable mini motion detector. 10 superbrite white LEDs light for approx. 30sec. when motion is detected. Detection range: approx. 10ft+. Requires 3 "AA" cells. (Not supplied). Can be wall mounted or placed on flat surface

SQ.: 3-3/8" **T:** 1-1/2" **WT:** .25

STOCK #	DESC.	1EA
17923-MI	Portable Motion Detector	$11.95

UV MARKING

Unique marking & identifying system. Includes a pen that dispenses a clear, permanent ink visable only under UV light from the mini UV LED Flashlight. Mark documents, pictures, cell phones, I-Pods & other electronics. Prove ownership of lost or stolen items. Uses 3 LR44 coin cells (Included) includes Key/Belt loop chain.

L: 2-1/2" (Light) **WT:** .24

STOCK #	DESC.	1EA
17936-MI	UV Marking System	$5.95

CURRENCY DETECTOR

World wide forgery detector contains a 400nm UV LED and Magnetic thread/Ink detector. Requires 4 LR44/AG13 cells (included) push button switches for functions. For currency/document/art examination, chemicial analysis, gem indentification etc. Includes 15" neck lanyard.

L: 3-1/2 **W:** 1" **T:** 7/8" **WT:** .1

STOCK #	DESC.	1+EA
18328-MI	UV/Mag. Forgery Detector	$5.99

BLACK HEATSHRINK TUBING

Polyolefin
Listed dia. before shrinking, 2X min shrink ratio.
Rated 125deg. " C", 600V. UL/CSA Listed.
Available in 4ft lengths or 100ft. Rolls
L: 4ft.

STOCK #		DESC.	WT.	1PC
16325-HS	3/64	Black Shrink	.004	$0.49
16326-HS	1/16	Black Shrink	.007	$0.59
16327-HS	3/32	Black Shrink	.009	$0.69
16328-HS	1/8	Black Shrink	.011	$0.75
16329-HS	1/4	Black Shrink	.022	$0.95
16330-HS	3/8	Black Shrink	.033	$1.10
16331-HS	1/2	Black Shrink	.047	$1.25
16332-HS	3/4	Black Shrink	.09	$1.99
16333-HS	1	Black Shrink	.15	$2.29

HEATSHRINK ROLLS

L: 100ft.Rolls

STOCK #		DESC.	WT.	1ROLL
16334-HS	3/64	Black Shrink	.34	$5.95
16335-HS	1/16	Black Shrink	.4	$5.95
16336-HS	3/32	Black Shrink	.42	$5.95
16337-HS	1/8	Black Shrink	.5	$6.69
16338-HS	1/4	Black Shrink	.74	$8.83
16339-HS	3/8	Black Shrink	1.1	$10.66
16340-HS	1/2	Black Shrink	1.4	$12.96
16341-HS	3/4	Black Shrink	2.6	$24.95
16342-HS	1	Black Shrink	3.6	$48.17

COLOR HEATSHRINK ASSORTMENT

154 pc. of 4in. Shrink tubing in assorted colors. Flexable polyolefin rated for 135 deg. "C" Listed dia. before shrinking,
1/16" 56pcs. 3/32" 35pcs.
1/8" 28pcs. 3/16" 18pcs.
1/4" 9pcs. 3/8" 8pcs.
Includes hinged plastic box with latches

WT: .4

STOCK #	DESC.	1EA	12+EA
16481-HS	Color Shrink Kit	$12.95	$10.95

BLACK HEATSHRINK ASSORTMENT

154 pc. of 4in. Shrink tubing. Flexable polyolefin rated for 135 deg. "C". Listed dia. before shrinking,
1/16" 56pcs. 3/32" 35pcs.
1/8" 28pcs. 3/16" 18pcs.
1/4" 9pcs. 3/8" 8pcs.
Includes hinged plastic box with latches

WT: .4

STOCK #	DESC.	1EA	12+EA
16482-HS	Black Shrink Kit	$12.95	$10.95

HEATSHRINK MARKER ASSORTMENT

360 pc. of 1/2in. long Shrink tubing. 300 black + 60 un-numbered Colored pcs.
Flexable black polyolefin rated for 135 deg. "C". Listed dia. before shrinking, Numbered 0-9. In the following tubing sizes
1/8" 3/16"
1/4" 3/8"
1/2"
Includes hinged plastic box.

WT: .4

STOCK #	DESC.	1EA	12+EA
16483-HS	Heatshrink Marker Kit	$12.95	$10.95

COLOR HEATSHRINK TUBING

Polyolefin
(Clear-CYG-KYNAR)
Listed dia. before shrinking,
2X min shrink ratio.
Rated 125deg. " C", 600V.
Available in 4ft lengths Only
UL/CSA Listed

RED HEATSHRINK

L: 4ft.

STOCK #		DESC.	WT.	1PC
16601-HS	3/64	Red Shrink	.004	$0.49
16602-HS	1/16	Red Shrink	.007	$0.59
16603-HS	3/32	Red Shrink	.009	$0.69
16604-HS	1/8	Red Shrink	.011	$0.75
16605-HS	1/4	Red Shrink	.022	$0.95
16606-HS	3/8	Red Shrink	.033	$1.10
16607-HS	1/2	Red Shrink	.047	$1.25
16608-HS	3/4	Red Shrink	.09	$1.99
16609-HS	1	Red Shrink	.15	$2.29

BLUE HEATSHRINK

L: 4ft.

STOCK #		DESC.	WT.	1PC
16611-HS	3/64	Blue Shrink	.004	$0.49
16612-HS	1/16	Blue Shrink	.007	$0.59
16613-HS	3/32	Blue Shrink	.009	$0.69
16614-HS	1/8	Blue Shrink	.011	$0.75
16615-HS	1/4	Blue Shrink	.022	$0.95
16616-HS	3/8	Blue Shrink	.033	$1.10
16617-HS	1/2	Blue Shrink	.047	$1.25
16618-HS	3/4	Blue Shrink	.09	$1.99
16619-HS	1	Blue Shrink	.15	$2.29

YELLOW HEATSHRINK

L: 4ft.

STOCK #		DESC.	WT.	1PC
16621-HS	3/64	Yellow Shrink	.004	$0.49
16622-HS	1/16	Yellow Shrink	.007	$0.59
16623-HS	3/32	Yellow Shrink	.009	$0.69
16624-HS	1/8	Yellow Shrink	.011	$0.75
16625-HS	1/4	Yellow Shrink	.022	$0.95
16626-HS	3/8	Yellow Shrink	.033	$1.10
16627-HS	1/2	Yellow Shrink	.047	$1.25
16628-HS	3/4	Yellow Shrink	.09	$1.99
16629-HS	1	Yellow Shrink	.15	$2.29

CLEAR HEATSHRINK

CYG-KYNAR

L: 4ft.

STOCK #		DESC.	WT.	1PC
16631-HS	3/64	Clear Shrink	.004	$0.49
16632-HS	1/16	Clear Shrink	.007	$0.59
16633-HS	3/32	Clear Shrink	.009	$0.69
16634-HS	1/8	Clear Shrink	.011	$0.75
16635-HS	1/4	Clear Shrink	.022	$0.95
16636-HS	3/8	Clear Shrink	.033	$1.10
16637-HS	1/2	Clear Shrink	.047	$1.25
16638-HS	3/4	Clear Shrink	.09	$1.99
16639-HS	1	Clear Shrink	.15	$2.29

GREEN HEATSHRINK

L: 4ft.

STOCK #		DESC.	WT.	1PC
16641-HS	3/64	Green Shrink	.004	$0.49
16642-HS	1/16	Green Shrink	.007	$0.59
16643-HS	3/32	Green Shrink	.009	$0.69
16644-HS	1/8	Green Shrink	.011	$0.75
16645-HS	1/4	Green Shrink	.022	$0.95
16646-HS	3/8	Green Shrink	.033	$1.10
16647-HS	1/2	Green Shrink	.047	$1.25
16648-HS	3/4	Green Shrink	.09	$1.99
16649-HS	1	Green Shrink	.15	$2.29

WHITE HEATSHRINK

L: 4ft.

STOCK #		DESC.	WT.	1PC
16651-HS	3/64	White Shrink	.004	$0.49
16652-HS	1/16	White Shrink	.007	$0.59
16653-HS	3/32	White Shrink	.009	$0.69
16654-HS	1/8	White Shrink	.011	$0.75
16655-HS	1/4	White Shrink	.022	$0.95
16656-HS	3/8	White Shrink	.033	$1.10
16657-HS	1/2	White Shrink	.047	$1.25
16658-HS	3/4	White Shrink	.09	$1.99
16659-HS	1	White Shrink	.15	$2.29

VIOLET HEATSHRINK

L: 4ft.

STOCK #		DESC.	WT.	1PC
16661-HS	3/64	Violet Shrink	.004	$0.49
16662-HS	1/16	Violet Shrink	.007	$0.59
16663-HS	3/32	Violet Shrink	.009	$0.69
16664-HS	1/8	Violet Shrink	.011	$0.75
16665-HS	1/4	Violet Shrink	.022	$0.95
16666-HS	3/8	Violet Shrink	.033	$1.10
16667-HS	1/2	Violet Shrink	.047	$1.25
16668-HS	3/4	Violet Shrink	.09	$1.99
16669-HS	1	Violet Shrink	.15	$2.29

DUAL WALL HEATSHRINK

4ft. long black, adhesive lined shrink tubing.
Flexable polyolefin rated for 135 deg. "C" Listed dia. before shrinking,
L: 4ft.

STOCK #		DESC.	WT.	1PC
16674-HS	1/8	Dual Wall Shrink	.015	$2.95
16673-HS	3/16	Dual Wall Shrink	.017	$3.95
16675-HS	1/4	Dual Wall Shrink	.025	$4.95
16676-HS	3/8	Dual Wall Shrink	.041	$6.95
16677-HS	1/2	Dual Wall Shrink	.055	$7.95
16678-HS	3/4	Dual Wall Shrink	.12	$9.95
16679-HS	1	Dual Wall Shrink	.2	$12.95

DUAL WALL HEATSHRINK ASSORTMENT

37 pc. of 4in. long black, adhesive lined shrink tubing. Flexable polyolefin rated for 135 deg. "C" Listed dia. before shrinking,
1/8" 12pcs. 1/4" 10pcs.
3/8" 6pcs. 1/2" 4pcs.
3/4" 3pcs. 1" 2pcs.
Includes hinged plastic box with latches

WT: .52

STOCK #	DESC.	1EA	12+EA
16484-HS	Dual Wall Shrink Kit	$16.95	$14.95

6" BLACK HEATSHRINK ASSORTMENT

24 pc. of 6in. long Black Shrink tubing in assorted Dia. Flexable polyolefin rated for 125 deg. "C"/ 600V. Listed dia. before shrinking. 4 pcs. each of following sizes: 3/32", 1/8", 3/16", 1/4", 3/8" &1/2"

L: 6" **WT:** .2

STOCK #	DESC.	1EA
16830-HS	Black 6" long Shrink Bagged	$3.95

6" COLOR 1/8"HEATSHRINK ASSORTMENT

10 pc. of 6in. long X 1/8" Dia. Shrink tubing in assorted colors. Flexable polyolefin rated for 125 deg. "C"/600V

Black	2pcs.	Blue	1pc.	Yellow	1pc.
Clear	2pcs.	Green	1pc.		
Red	2pcs.	White	1pc.		

L: 6" **WT:** .2

STOCK #	DESC.	1EA
16831-HS	Color 1/8" Shrink Bagged	$2.25

6" COLOR 3/16"HEATSHRINK ASSORTMENT

10 pc. of 6in. long X 3/16" Dia. Shrink tubing in assorted colors. Flexable polyolefin rated for 125 deg. "C"/600V

Black	2pcs.	Blue	1pc.	Yellow	1pc.
Clear	2pcs.	Green	1pc.		
Red	2pcs.	White	1pc.		

L: 6" **WT:** .2

STOCK #	DESC.	1EA
16832-HS	Color 3/16" Shrink Bagged	$2.50

6" COLOR 1/4"HEATSHRINK ASSORTMENT

10 pc. of 6in. long X 1/4" Dia. Shrink tubing in assorted colors. Flexable polyolefin rated for 125 deg. "C"/600V

Black	2pcs.	Blue	1pc.	Yellow	1pc.
Clear	2pcs.	Green	1pc.		
Red	2pcs.	White	1pc.		

L: 6" **WT:** .2

STOCK #	DESC.	1EA
16833-HS	Color 1/4" Shrink Bagged	$2.75

6" COLOR 3/8"HEATSHRINK ASSORTMENT

10 pc. of 6in. long X 3/8" Dia. Shrink tubing in assorted colors. Flexable polyolefin rated for 125 deg. "C"/600V

Black	2pcs.	Blue	1pc.	Yellow	1pc.
Clear	2pcs.	Green	1pc.		
Red	2pcs.	White	1pc.		

L: 6" **WT:** .2

STOCK #	DESC.	1EA
16834-HS	Color 3/8" Shrink Bagged	$2.95

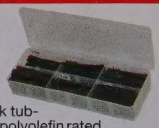
ADHEASIVE LINED SHRINK TUBING

4ft. long black, adhesive lined shrink tubing
.03" Heavy wall Polyolefin
1-5/8in dia. before shrinking,
2X min shrink ratio. Rated 125deg. " C", 600V.

L: 4ft **DIA.:** 1-5/8" **WT:** .34

STOCK #	DESC.	1EA
18199-HS	1-5/8" Black Heat Shrink	$2.99

2-1/2" BLACK HEATSHRINK ASSORTMENT



158 pc. of 2-1/2in. Black Shrink tubing in assorted colors. Flexable polyolefin rated for 125 deg. "C"/600V. Listed dia. before shrinking,

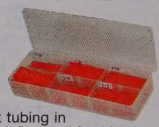
1/16"	60pcs.	1/8"	40pcs.
3/16"	20pcs.	1/4"	18pcs.
3/8"	10pcs.	1/2"	10pcs.

Includes hinged plastic box with latches

L: 2-1/2" **WT:** .2

STOCK #	DESC.	1EA
16835-HS	2-1/2" Black Shrink Kit	$10.95

2-1/2" RED HEATSHRINK ASSORTMENT



158 pc. of 2-1/2in. Red Shrink tubing in assorted colors. Flexable polyolefin rated for 125 deg. "C"/600V. Listed dia. before shrinking,

1/16"	60pcs.	1/8"	40pcs.
3/16"	20pcs.	1/4"	18pcs.
3/8"	10pcs.	1/2"	10pcs.

Includes hinged plastic box with latches

L: 2-1/2" **WT:** .4

STOCK #	DESC.	1EA
16836-HS	2-1/2" Red Shrink Kit	$10.95

4" HEATSHRINK ASSORTMENT

160 pc. of 4in. long shrink tubing. Includes Black, Blue, Clear, Green, Red, White & Yellow colors. Flexable polyolefin rated for 125 deg. "C"/ 600V. Listed dia. before shrinking,

1/16"	60pcs.	3/32	35pcs.
1/8"	25pcs.	3/16"	20pcs.
1/4"	10pcs.	3/8"	10pcs.

Includes hinged plastic box with latches

L: 4" **WT:** .4

STOCK #	DESC.	1EA
16843-HS	4" Assort. Color Shrink Kit	$11.95

WIRING ASSCESSORY KIT

Each set contains:
1ea. pocket flat blade screwdriver/AC/DC neon voltage checker 100-250V
Flexable 4in. long polyolefin shrink tubing rated for 135 deg. "C"

8pcs. ea.	1/16"	clear	& black
8pcs. ea.	3/32"	clear	& black
6pcs. ea.	1/8"	clear	& black
4pcs. ea.	3/16"	clear	& black
2pcs. ea.	1/4"	clear	& black
2pcs. ea.	3/8"	clear	& black

20pcs. ea 3in. black & natural wire tyes
10pcs. ea 7in. black & natural wire tyes
4pcs. ea 1/8in. black & natural cable clamps
2pcs. ea 1/4n. black & natural cable clamps
2pcs. ea 5/16in. black & natural cable clamps
2pcs. ea 7/16in. black & natural cable clamps
1pc. ea 1/2in. black & natural cable clamp
1pc. ea 5/8in. black & natural cable clamp
20ea. assort. rubber grommits
40+pcs. ea 2.5mm X 10mm black & silver screws
40+pcs. ea 3.5mm X 12mm black & silver screws

Includes hinged plastic box with latch.

WT: .8

STOCK #	DESC.	1EA	12+EA
16485-HD	Wiring Asscesory Kit	$16.95	$14.95

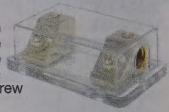
SPLASHPROOF FUSE BLOCK

Heavy duty Type ANE (ANL) splashproof fuse block. Fuse & Wire clamp screws are 24K Gold plated. Holds single ANE/ ANL fuse. Accepts up to 1/0 AWG cable, Clear housing with silver plastic end covers. 4 screw mounting.

L: 7-1/2" **W:** 2-1/8" **H:** 1-1/2" **WT:** .9

STOCK #	DESC.	1EA	5+EA
15526-FH	Splashproof ANE Holder	$8.99	$8.25

HEAVY DUTY FUSE BLOCK



Heavy duty Type ANE (ANL) fuse block. All metal parts are 24K Gold plated. Holds single ANE/ANL fuse up to 500A. Accepts up to 1AWG cable, Set screw clamp, clear snap on cover.

L: 4" **W:** 1-7/8" **H:** 1-1/2" **WT:** .2

STOCK #	DESC.	1EA	5+EA
14948-FH	ANE Fuse Holder	$10.95	$9.95

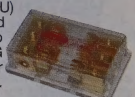
2 POSITION FUSE BLOCK

Distribution block for Type AUE (AGU) fuses. All metal parts are 24K Gold plated. Holds 2 AUE (AGU) fuses up to 80A each. One 3 way #4 AWG input, Two 8AWG output. Inner steps to allow insulation into block. Set screw clamps, clear housing.

L: 4" **W:** 1-7/8" **H:** 1-1/4" **WT:** .4

STOCK #	DESC.	1EA	5+EA
14952-FH	2 Pos. Fused Block	$7.49	$6.95

3 POSITION FUSE BLOCK



Distribution block for Type AUE (AGU) fuses. All metal parts are 24K Gold plated. Holds 3 AUE (AGU) fuses up to 80A each. One 3 way #4 AWG input, Three 8AWG output. Inner steps to allow insulation into block. Set screw clamps, clear housing.

L: 4" **W:** 2-3/8" **H:** 1-1/4" **WT:** .6

STOCK #	DESC.	1EA	5+EA
14953-FH	3 Pos. Fused Block	$9.75	$8.95

4 POSITION FUSE BLOCK

Distribution block for Type AUE (AGU) fuses. All metal parts are 24K Gold plated. Holds 4 AUE (AGU) fuses up to 80A each. One 3 way #4 AWG input, Four 8AWG output. Inner steps to allow insulation into block. Set screw clamps, clear housing.

L: 4" **W:** 3" **H:** 1-1/4" **WT:** .7

STOCK #	DESC.	1EA	5+EA
14954-FH	4 Pos. Fused Block	$10.95	$9.95

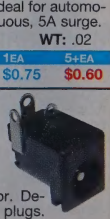
IN LINE FUSE HOLDER

Plastic in line fuse holder. Holds a standard AGC (3AG) 1/4" dia fuse. Overall length is 9-1/2". Ideal for automotive uses etc. Max current is 3A continuous, 5A surge.

L: 9.5" O/A **WT:** .02

STOCK #	DESC.	1EA	5+EA
4477-FH	InlineFuseholder	$0.75	$0.60

COAXIAL POWER JACK



Plastic, P.C. mount power connector. Designed for 5.5mm/2.1mm dia. power plugs. Solder terminals

WT: .004

STOCK #	DESC.	1EA	100EA
18027-PL	5.5/2.1mm Power Jack	$0.49	$0.39

ATC/ATO AUTOMOTIVE FUSE ASSORTMENT

120 auto fuses in plastic storage box
Each kit contains:
20pcs. 5A (Orange)
20pcs. 10A (Red)
20pcs. 15A (Blue)
20pcs. 20A (Yellow)
20pcs. 25A (Clear)
20pcs. 30A (Green)

WT: .5

STOCK #	DESC.	1EA	10+EA
15706-FU	120pc. Fuse Assort.	$13.95	$12.95

FUSEHOLDER FOR GMA FUSES

Panel mount fuseholder for GMA .787" X .197" (20mm X 5mm) type fuses. Rated 10A @ 250VAC. Multi-turn cap, solder terminals

Mounting Hole: 1/2" WT: .033

STOCK #	DESC.	1EA	5+EA
5585-FH	GMA Fuse Holder	$0.50	$0.40

CHASSIS FUSEHOLDER FOR STANDARD FUSES

Panel mount fuseholder for standard AGC (1-1/4" X 1/4") type fuses. Rated 15A @ 125 VAC/10A @ 250VAC. Multi-turn cap, solder terminals

Mounting Hole: 9/16" WT: .033

STOCK #	DESC.	1EA	5+EA
4476-FH	Std. Fuse Holder	$0.75	$0.65

FUSE HOLDER FOR ATQ/ATC BLADE FUSE

Fiber reinforced nylon in line fuse holder with attached cover to keep out dirt, water resistant but not water proof. For full size ATQ type blade fuses. 8" AWG12 wire loop. 30A max. current.

L: 9.5" O/A WT: .1

STOCK #	DESC.	1EA	5+EA
8878-FH	ATQ Blade Fuseholder	$1.65	$1.49

FUSE HOLDER FOR ATQ BLADE FUSE

Molded rubber In line fuse holder for full size ATQ blade fuses, Overall length is 9" (8" AWG12 wire loop). 30A max. current.

L: 9.5" O/A WT: .04

STOCK #	DESC.	1EA	5+EA
8879-FH	ATQ Blade Fuseholder	$1.25	$0.95

FUSEHOLDER & FUSE

Plastic in line fuse holder with 10A fuse installed. Holds a standard AGC (3AG) 1/4" Dia fuse. 16AWG Wire

L: 13" O/A WT: .05

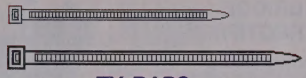
STOCK #	DESC.	1EA	10+EA
18082-FH	Fuseholder/10A Fuse	$0.99	$0.89

2A SUB MINI FUSE

Fuses the size of a 1/4W resistor. Wire leads
SOLD IN PACKS OF 5 SAME VALUE

L: 3/8"(Body) **Dia:** 1/8" WT: .06/pack

STOCK #	AMPS	DESC.	1PK	10+PK
12130-FU	2	Submini Fuse	$2.00	$1.60

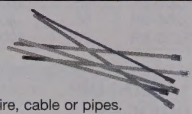


TY-RAPS

UL listed Natural or Black Nylon ties
Sold in packs of **100**

STOCK #	DESC.		1PK	10+PK
0200-TY	5-1/2" Ty-Rap	.1	$1.70	$1.50
4529-TY	7-1/2"Ty-Rap	.2	$2.80	$2.00
4530-TY	11" Ty-Rap	.5	$5.00	$3.90
11630-TY	4" Black Ty-Rap	.1	$1.30	$1.10
11508-TY	7-1/2" Black Ty-Rap	.2	$2.50	$2.00
11633-TY	11" Black Ty-Rap	.5	$6.90	$5.50
0199-TY	4" Ty-Rap	.1	$1.10	$0.90

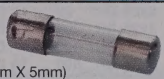
STAINLESS STEEL TIES



6pc. steel wire ties. For wire, cable or pipes.
17545: **L:** 7" **W:** 3/16" WT: .05
17873: **L:** 12" **W:** 6/16" WT: .1

STOCK #	DESC.	1EA
17545-TY	6 Pack 7in. Wire Ties	$1.95
17873-TY	6 Pack 12in. Wire Ties	$3.50

GMA FUSES



.787" X .197"dia. (20mm X 5mm)
Metric fuses for use in equipment designed for world wide use
SOLD IN PACKS OF 10 SAME VALUE.

L: .787" **Dia:** .197" WT: .02/pk

STOCK #	AMPS	DESC.	1PK	10+PK
15761-FU	.5	GMA Fuse	$0.80	$0.60
15762-FU	1	GMA Fuse	$0.80	$0.60
15763-FU	1.5	GMA Fuse	$0.80	$0.60
15764-FU	2	GMA Fuse	$0.80	$0.60
15765-FU	3	GMA Fuse	$0.80	$0.60
15766-FU	4	GMA Fuse	$0.80	$0.60
15767-FU	5	GMA Fuse	$0.80	$0.60
15768-FU	6	GMA Fuse	$0.80	$0.60
15769-FU	8	GMA Fuse	$0.80	$0.60
15770-FU	10	GMA Fuse	$0.80	$0.60
15771-FU	15	GMA Fuse	$0.80	$0.60

AGU/AUE FUSES

Audio System Distribution Fuses
High performance Gold Plated

L: 1-1/2" **Dia:** 13/32" WT: .02

STOCK #	AMPS	DESC.	1EA	5+EA
14990-FU	30	AGU/AUE Fuse	$2.25	$1.90
14991-FU	40	AGU/AUE Fuse	$2.25	$1.90
14992-FU	50	AGU/AUE Fuse	$2.25	$1.90
14993-FU	60	AGU/AUE Fuse	$2.25	$1.90
14994-FU	80	AGU/AUE Fuse	$2.25	$1.90

ANL/ANE FUSES

Audio System Distribution Fuses
High performance Gold Plated

L: 3-1/8" **W:** 7/8" **T:** 3/8 WT: .06

STOCK #	AMPS	DESC.	1EA	5+EA
14998-FU	80	ANE/ANL Fuse	$3.49	$2.95
14999-FU	100	ANE/ANL Fuse	$3.49	$2.95
15000-FU	130	ANE/ANL Fuse	$3.49	$2.95
15001-FU	150	ANE/ANL Fuse	$3.49	$2.95
15002-FU	175	ANE/ANL Fuse	$3.49	$2.95
15003-FU	200	ANE/ANL Fuse	$3.49	$2.95

STANDARD FUSES

General use electronic fuses.
SOLD IN PACKS OF 10 SAME VALUE.

L: 1-1/4" **Dia:** 1/4" WT: .03/pk

STOCK #	AMPS	DESC.	1PK	10+PK
15775-FU	.25	Std. Blow Fuse	$0.99	$0.80
15776-FU	.50	Std. Blow Fuse	$0.99	$0.80
15777-FU	1	Std. Blow Fuse	$0.99	$0.80
15778-FU	1.5	Std. Blow Fuse	$0.99	$0.80
15779-FU	2	Std. Blow Fuse	$0.99	$0.80
15780-FU	4	Std. Blow Fuse	$0.99	$0.80
15781-FU	5	Std. Blow Fuse	$0.99	$0.80
15782-FU	6	Std. Blow Fuse	$0.99	$0.80
15783-FU	8	Std. Blow Fuse	$0.99	$0.80
15784-FU	10	Std. Blow Fuse	$0.99	$0.80
15785-FU	20	Std. Blow Fuse	$0.99	$0.80

ATC AUTOMOTIVE

ATC (ATQ) Blade type fuses used in cars
SOLD IN BOXES OF 10 OF SAME VALUE.

WT: .05/pk

STOCK #	AMPS	DESC.	1PK	10+PK
4215-FU	3	Automotive Fuse	$1.50	$1.20
3613-FU	5	Automotive Fuse	$1.50	$1.20
3615-FU	10	Automotive Fuse	$1.50	$1.20
3616-FU	15	Automotive Fuse	$1.50	$1.20
3617-FU	20	Automotive Fuse	$1.50	$1.20
3618-FU	25	Automotive Fuse	$1.50	$1.20
3619-FU	30	Automotive Fuse	$1.50	$1.20

AST MINI AUTOMOTIVE

AST Mini Blade type fuses used in cars
SOLD IN BOXES OF 10 OF SAME VALUE.

WT: .05/pk

STOCK #	AMPS	DESC.	1PK	10+PK
15721-FU	5	Automotive Fuse	$1.90	$1.75
15722-FU	7.5	Automotive Fuse	$1.90	$1.75
15723-FU	10	Automotive Fuse	$1.90	$1.75
15725-FU	20	Automotive Fuse	$1.90	$1.75
15726-FU	25	Automotive Fuse	$1.90	$1.75
15727-FU	30	Automotive Fuse	$1.90	$1.75

15A FUSE HOLDER

Bussman 2839 fuseholder for 1/4in X 1-1/4in. Fuses. Chassis mount 1/4" quick connect terminals. Marked "CU ONLY". Rated 15 UL 250VAC Max.

L: 1-9/16" Base **W:** 1/2" **H:** 3/4"O/A WT: .015

STOCK #	DESC.	1EA	10EA
16795-FU	Buss 2839 Fuseholder	$0.75	$0.49

10A DC BREAKER

P & B P/N W28-XT1A-10 snap in Thermal breaker rated 10A@ 32 VDC/250VAC max. 1/4" quick connect terminals. Mounts in 5/8" hole. Designed to fit into same size space as a Std. Fuesholder. For panels: .075"-.105" thick. UL/CSA/VDE listed

L: 2" O/A WT: .018

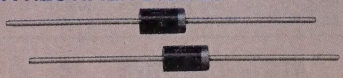
STOCK #	DESC.	1EA
18100-FU	10A Circuit Breaker	$0.99

1A RECTIFIER DIODES

1N4000 series 1 Amp Axial diodes. DO-04 Case WT: .001

STOCK #	DESC.	PIV	1EA	200EA	1000+EA
5211-DI	1N4001	50	$0.05	$0.04	$0.03
5212-DI	1N4002	100	$0.05	$0.04	$0.03
5213-DI	1N4003	200	$0.06	$0.05	$0.03
5214-DI	1N4004	400	$0.06	$0.05	$0.04
5215-DI	1N4005	600	$0.06	$0.05	$0.04
5216-DI	1N4006	800	$0.06	$0.05	$0.04
5217-DI	1N4007	1000	$0.07	$0.06	$0.04

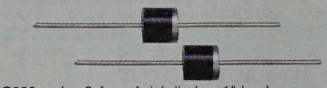
3A RECTIFIER DIODES



1N5400 series 3 Amp Axial diodes. DO-201AD Case
Dia: .375 WT: .001

STOCK #	DESC.	PIV	10EA	200EA	800+EA
4991-DI	1N5400	50	$0.25	$0.18	$0.16
4992-DI	1N5401	100	.19	.14	.12
4993-DI	1N5402	200	.20	.14	.13
4995-DI	1N5404	400	.21	.15	.13
4996-DI	1N5405	500	.21	.15	.13
4997-DI	1N5406	600	.22	.16	.14
4998-DI	1N5407	800	.23	.16	.15
4999-DI	1N5408	1000	.23	.17	.15

6A RECTIFIER DIODES

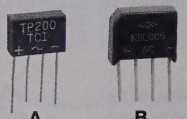


P600 series 6 Amp Axial diodes. 1" leads
Dia: .39" WT: .002

STOCK #	DESC.	PIV	10EA	200EA	800+EA
5218-DI	P600A	50	$0.54	$0.39	$0.35
5219-DI	P600B	100	$0.60	.43	.38
5220-DI	P600D	200	$0.65	.47	.42
5221-DI	P600G	400	$0.70	.51	.45
5222-DI	P600J	600	$0.76	.55	.49
5223-DI	P600K	800	$0.76	.55	.49
5224-DI	P600M	1000	$0.76	.55	.49

IN-LINE BRIDGES

WIRE LEADS

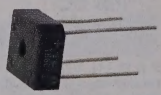


A B

WT: .001

STOCK #	AMP.	PIV	FIG.	1EA	25+EA
5234-BR	2	50	A	$0.44	$0.39
5235-BR	2	400	A	$0.54	$0.48
5236-BR	2	1000	A	$0.62	$0.55
5237-BR	4	50	B	$0.75	$0.67
5238-BR	4	200	B	$0.88	$0.79
5239-BR	4	400	B	$0.98	$0.88
5203-BR	4	1000	B	$1.49	$1.34

6A SQ. BRIDGE

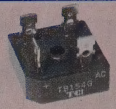


Wire Leads for PC Board Mtg

WT: .001

STOCK #	PIV	DESC.	1EA	25+EA
5241-BR	50	6A Bridge	$0.88	$0.79
5243-BR	1000	6A Bridge	$1.35	$1.21

BRIDGE RECTIFIERS



Square package, .250" Quick connect terminals.

WT: .05 15-30A / .1 50A

STOCK #	AMP.	PIV	1EA	25+EA
5244-BR	15	100	$1.91	$1.70
5245-BR	15	400	$2.65	$2.38
5246-BR	15	1000	$3.44	$3.09
5247-BR	25	50	$1.95	$1.75
5248-BR	25	400	$2.70	$2.43
5249-BR	25	1000	$3.49	$3.14
5250-BR	35	50	$2.25	$1.99
5251-BR	35	400	$2.99	$2.69
5252-BR	35	1000	$3.99	$3.59
5254-BR	50	400	$5.75	$4.95
5255-BR	50	1000	$6.45	$5.95

1A MINI DIP BRIDGES

4 pin Mini DIP Package for socket or PC board mounting

WT: .001

STOCK #	PIV	DESC.	1EA	50+EA
5225-BR	50	1A DIP Bridge	$0.39	$0.35
5226-BR	200	1A DIP Bridge	$0.42	$0.37
5227-BR	400	1A DIP Bridge	$0.44	$0.39
5228-BR	800	1A DIP Bridge	$0.50	$0.45

1.5A ROUND BRIDGE

1.5 Amp, Wire Leads for PC Board Mtg

WT: .001

STOCK #	PIV	DESC.	1EA	50+EA
5230-BR	50	1.5A Bridge	$0.35	$0.32
5231-BR	200	1.5A Bridge	$0.37	$0.33
5232-BR	400	1.5A Bridge	$0.39	$0.35
5233-BR	800	1.5A Bridge	$0.48	$0.43

40A STUD RECTIFIERS

Silicon stud diodes rated 40A 600PIV. Available standard Cathode case or Reverse; Anode Case for ease in heatsinking. Includes 1/4-28 Nut.

WT: .04

STOCK #	DESC.	1+EA
18392-DI	1N1190A 40A Cath. Case Diode	$3.50
18393-DI	1N1190AR 40A Anode Case Diode	$3.50

12V/3A VOLTAGE REGULATOR

T.I. PT6304N, "Point Of Load" Switching regulator. Rated: 16-30VDC input; 12VDC Output at 3A. Line/Load Reg: 0.5%.Output V can be adjusted with the addition of external resistor. 12Pin SIP.

L: 1-11/16" W: 3/8" H: 5/8" WT: .02

STOCK #	DESC.	1EA
18659-RG	T.I. Switching Regulator	$10.95

LOGIC DIODES

General purpose silicon logic diodes at OEM prices.

WT: .05/15 .16/100

STOCK #	DESC.	15+EA	100+EA
1670-DI	1N4148 Diode	$0.06	$0.04
0614-DI	1N914 Diode	$0.05	$0.03

VOLTAGE REGULATORS

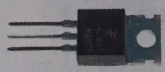
TO-220 CASE

32VDC Max input Voltage
1Amp Output, three terminal regulators

WT: .001

STOCK #	IND. #	OUT V	1EA	25+EA
0359-RG	7805/340-5	+5	$0.50	$0.35
0366-RG	7905	-5	$0.50	$0.35
0361-RG	7812	12	$0.50	$0.35
0367-RG	7912	-12	$0.50	$0.35
0368-RG	7915	-15	$0.50	$0.35
0364-RG	7824	+24	$0.50	$0.35

LM-317 ADJ. VOLTAGE REGULATOR

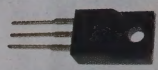


One of the most popular Adjustable regulator of all time. Rated: 3-37VDC input; 1.2-35V adjustable output at 1A.

WT: .05

STOCK #	DESC.	1EA	25+EA
0365-RG	LM317 Adj. Regulator	$0.75	$0.49

7812 VOLTAGE REGULATOR



Fully insulated mtg. Tab does not require insulating pad, washer or isolated heat sink. The most popular 12V regulator. Rated: 3-30VDC input. 12VDC @ 1A out

WT: .05

STOCK #	DESC.	1EA	25+EA
16827-RG	7812 +12V Regulator	$0.50	$0.35

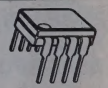
TRANSISTOR SPECIAL

General purpose, small signal amplifiers in TO-226 plastic case.

WT: .001

STOCK #	IND. #	1EA	100EA	2000+EA
2030-QT	PN-2222A	$0.25	$0.12	$0.06
2224-QT	2N3906	$0.25	$0.12	$0.06
4024-QT	2N4401	$0.25	$0.12	$0.06

NE555 TIMER IC



Work horse of all timing circuits. 8 Pin Mini DIP.

WT: .001

STOCK #	DESC.	1EA	5+EA
2350-IC	NE555 Timer IC	$0.50	$0.42

PLL MOTOR CONTROL IC

Toshiba TC9203P Phase Lock Loop IC.Designed to control the spindle motor in Floppy Drives. Built in Oscilator, Auto Phase control, Auto Frequency control, many features needed to control motor speed.

WT: .01

STOCK #	DESC.	1EA	25+EA
8381-IC	Toshiba PLL IC	$1.25	$1.00

OPTO INTERRUPTER

MFG: LITEON
P/N: LTH-301-23
LED: 60mA max 5VDC max reverse volts
OUTPUT TRANSISTOR: 20mAmax /30Vceo max
Ic on state: .4mA @ Vce=5V
CONNECTION: PC Mount
.197" Wide X .30" deep gap, Opto transistor output.
L: .54" H: .39" T: .22" WT: .0015

STOCK #	DESC.	1EA	10EA
18028-OP	Liteon Opto-Interrupter	$0.45	$0.38

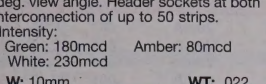
12V LED STRIPS

Water resistant, PVC encapsulated, flexible strip of 12 LEDs on 25mm C/C. 12VDC operation 75mA max current draw. 120 deg. view angle. Header sockets at both ends allowing interconnection of up to 50 strips.
Individual LED Intensity:
Red: 80mcd Green: 180mcd Amber: 80mcd
Blue: 70mcd White: 230mcd

L.: 29.5cm **W:** 10mm **WT:** .022

STOCK #	DESC.	1EA	10+EA
17358-OP	Red LED Flex Strip	$12.95	$8.95
17359-OP	Green LED Flex Strip	$12.95	$8.95
17360-OP	Amber LED Flex Strip	$12.95	$8.95
17361-OP	Blue LED Flex Strip	$12.95	$8.95
17362-OP	White LED Flex Strip	$12.95	$8.95

12V RGB LED STRIP



Water resistant, PVC encapsulated, flexible strip of 36 LEDs Grouped 1 each color on 25mm C/C. Total of 12ea Red/Green & Blue. Each color can be powered independently or concurrently. 12VDC operation, 220mA max draw. 120deg. view angle. Header sockets at both ends allowing interconnection of 15 strips. Individual LED Intensity:
Red: 80mcd Green: 180mcd Blue: 70mcd
When used with 18137-OP Controller; strip will slowly cycle through combinations of the 3 colors. Approx. cycle time is 16sec.
NOTE: Cannot be connected to Single Color Strips

L.: 29.5cm **W:** 10mm **WT:** .022

STOCK #	DESC.	1EA	10+EA
17363-OP	R/G/B LED Flex Strip	$16.95	$12.95

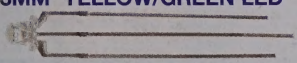
12V RGB STRIP DRIVER

NEW SMT Driver module that plugs directly into the 17363-OP RGB LED strip. Controller will slowly cycle through combinations of the 3 colors. Approx. cycle time is 16sec.24in Power cord with a 5.5/2.5mm Jack on end
12VDC operation. Max Drive 15 strips
NOTE: Cannot be connected to Single Color Strips

L: 24" **WT:** .02

STOCK #	DESC.	1EA	10+EA
18137-OP	R/G/B Driver Module	$8.95	$6.95

3MM YELLOW/GREEN LED

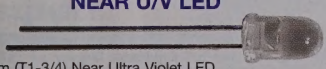


3mm (T1) Bi-Color Yellow/Green LED, 3 leads. Transparent, non-diffused case. Common Cathode with separate Anode for each color. 1" Leads.
Wavelength: Y585/G565nM
Output: 19mcd typ.
Max forward current 20mA continuous.
Forward Drop: Y2.6/G2.5V typ
Max reverse Voltage: 5VDC.

WT: .0001

STOCK #	DESC.	1EA	500+EA
18037-OP	C/C 3mm Bi-Color LED	$0.10	$0.07

NEAR U/V LED



5mm (T1-3/4) Near Ultra Violet LED, Transparent, non-diffused, Water Clear case. 1" Leads.
Wavelength: 400nM
Output: 80mcd typ.
Max forward current 20mA continuous.
Forward Drop: 3.6V typ
Max reverse Voltage: 5VDC.

WT: .001

STOCK #	DESC.	1EA	10+EA
14143-OP	Near UV LED	$0.29	$0.22

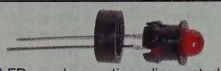
10MM WHITE 15000mcd LED

White, 10mm LED. Water clear case. 15000mcd, typ. light output . Max forward current 30mA continuous, 20mA recommended. 5VDC Max reverse Voltage. 3.8VDC typ. 4.5V max. Forward voltage drop. 15deg. View angle. 1" leads.

WT: .004

STOCK #	DESC.	1EA	100+EA
15415-OP	10mm WHITE LED	$0.43	$0.30

LED SPECIAL



Jumbo diffused red LEDs and mounting clips, rated current= 20mA, max current=30mA, buy your LEDs and get mounting clips for one low price.
Sold in Packs of 10

WT: .001

STOCK #	DESC.	1PK	10+PK
1413-OP	LEDs & Holders	$1.75	$1.65

12V G-4 BI-PIN LED LAMPS

Bi-pin bulb replacement assembly features: 14 super brite LEDs,12VAC or DC operation, 55deg. beam angle. Replacement for most G-4 lamps. .9mm dia. X 8mm Steel Pins, plastic body.

Dia.: 22.5mm **T:** 11mm **WT:** .009

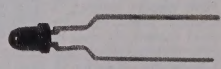
STOCK #	DESC.	1EA	10+EA
17352-OP	Red LED Bi-Pin Lamp	$8.95	$6.95
17353-OP	Green LED Bi-Pin Lamp	$8.95	$6.95
17354-OP	Amber LED Bi-Pin Lamp	$8.95	$6.95
17355-OP	Blue LED Bi-Pin Lamp	$8.95	$6.95
17356-OP	White LED Bi-Pin Lamp	$8.95	$6.95

I/R PHOTO TRANSISTOR

STANLEY PS5022 Silicon NPN photo transistor in 3.4mm Sq. flat package. Rated: BVceo= 30V, Ic=20mA, Vcesat= 100mV, Max sensitivity wavelength= 880nM, 1/2 angle=+-20deg, photo current @ 1mW/cm2 @ 880nM= .4mA min/2mA typ. .4" leads.

STOCK #	DESC.	1EA	10+EA
17756-QT	Stanley Phototransistor	$0.19	$0.18

I/R PHOTO TRANSISTOR

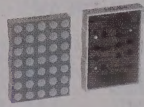


Siemens SFH309FA4 Silicon NPN photo transistor in T-1 LED case with I/R filter. Rated: BVceo= 35V, Ic=15mA, Vcesat= 200mV, Max sensitivity wavelength= 900nM, Photosensitivity range= 730-1120nM, 1/2 angle=+- 12°, photo current @ .5mW/cm² @ 950nM= 1-2mA. 1" leads

WT: .001

STOCK #	DESC.	1EA	25+EA
8949-OP	Photo Transistor	$0.30	$0.25

5 X 7 GREEN LED MATRIX

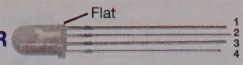


Liteon LTP-2057AG
LED Matrix.
Connected Anode Column/Cathode Row
Fwd current/Dot: 100mA max 13mA Ave
Max reverse Volts: 5V
Fwd. Drop: 2.6V @ 20ma Max/ 2.1V Typ.
565nm Green
2in height, stackable horizontally. DATA

H: 2" **W:** 1-1/2" **WT:** .05

STOCK #	DESC.	1EA	25+EA
16786-OP	5X7 Green LED Matrix	$3.95	$2.95

5MM TRI-COLOR LEDS



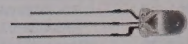
5mm (T1-3/4) Tri-Color Red/Green/Blue LED 4 leads. Transparent, diffused case. Available Common Anode (C/A) with separate Anode lead for each color. 1" leads
Wavelength: R630/G525/B430nM,
Min. output: R200/G300/B150mcd .
Max forward current 20mA continuous.
Max Forward Drop: R2.5/G4.5/B4.5V.
Max reverse Voltage =5VDC.

1: Red
2: Com
3: Blue
4: Green

WT: .001

STOCK #	DESC.	1EA	10+EA
17137-OP	C/A 5mm Tri-Color LED	$0.99	$0.74

5MM RED/GREEN LEDS

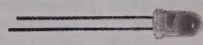


5mm (T1-3/4) Bi-Color Red/Green LED 3 leads. Transparent, diffused case. Common Cathode with separate Anode for each color. 1" Leads.
Wavelength: R635/G570nM
Min. output: R8/G5mcd
Max forward current 20mA continuous.
Max Forward Drop: R2.5/G2.5V.
Max reverse Voltage =5VDC.

WT: .001

STOCK #	DESC.	1EA	10+EA
17136-OP	C/C 5mm Bi-Color LED	$0.15	$0.11

5MM RED/GREEN BI-POLAR LEDS



5mm (T1-3/4) Bi-Color, Bi-Polar, Red/Green LED 2 leads. Transparent, diffused case. Red & Green Leds connected in Anti-Parallel.. 1" Leads.
Wavelength: R635/G570nM
Min. output: R8/G5mcd
Max forward current 20mA continuous.
Max Forward Drop: R2.5/G2.5V.
Max reverse Voltage =5VDC.

WT: .001

STOCK #	DESC.	1EA	10+EA
17135-OP	C/C 5mm Bi-Polar LED	$0.15	$0.11

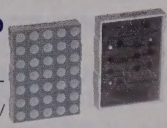
5 X 7 RED & GREEN LED MATRIX

Liteon LTP-2757AA LED Matrix.
Connected Anode Column/Cathode Row
Fwd current/Dot: 100mA max/13mA Ave
Max reverse Volts: 5V
Fwd. Drop: 2.6V @ 20ma Max
2.1V Green 2.0V Red Typ.
Two color: red/orange (630nM) & Green (565nM) in separate Row/column matrix.
2in height, stackable horizontally. DATA

H: 2" **W:** 1-1/2" **WT:** .05

STOCK #	DESC.	1EA	12EA
16784-OP	5X7 LED Matrix	$5.95	$4.95

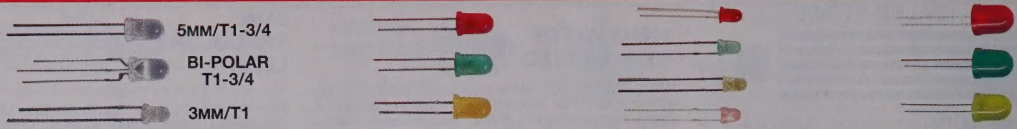
5 X 7 ORANGE LED MATRIX



Liteon LTP-2057AE LED Matrix.
Connected Anode Column/Cathode Row
Fwd current/Dot: 100mA max 13mA Ave
Max reverse Volts: 5V
Fwd. Drop: 2.6V @ 20ma Max/ 2.1V Typ.
630nm Orange
2in height, stackable horizontally. DATA

H: 2" **W:** 1-1/2" **WT:** .05

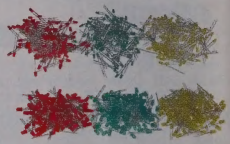
STOCK #	DESC.	1EA	25EA
16794-OP	5X7 Orange LED Matrix	$3.95	$2.95



WATER CLEAR | COLORED 5MM/T1-3/4 | COLORED 3MM/T1 | COLORED 10MM

STOCK#	COLOR/WAVELENGTH	INTENSITY	SIZE	CASE	VF	VRev max	IF cont.	WT	1EA	10+EA	100+EA
0206-OP	Red/660nM	2mcd Typ	3mm/T1	Red Non Diffused	1.8V	5V	20mA	.001	$0.09	$0.07	$0.06
0972-OP	Green/565nM	3mcd Typ	3mm/T1	Green Non Diffused	2.2V	5V	20mA	.001	$0.10	$0.08	$0.07
0973-OP	Yellow/585nM	3mcd Typ	3mm/T1	Yellow Non Diffused	2.1V	5V	20mA	.001	$0.10	$0.08	$0.07
14143-OP	Near UV/400nM	80mcd Typ	5mm/T1-3/4	Water Clear	3.6V	5V	20mA	.001	$0.29	$0.22	$0.20
12568-OP	Blue/470nM	3900mcd Typ	5mm/T1-3/4	Water Clear	4.0V	5V	20mA	.001	$0.34	$0.25	$0.23
17145-OP	White	10000 Typ	5mm/T1-3/4	Water Clear	3.2V	5V	20mA	.001	$0.34	$0.25	$0.23
16798-OP	IR /940nM/20deg.	17mW/sr	5mm/T1-3/4	Water Clear	1.2V	5V	20mA	.001	$0.20	----	----
17139-OP	Red/630nM	690mcd Min	5mm/T1-3/4	Water Clear	2.0V	5V	20mA	.001	$0.18	$0.16	$0.14
11017-OP	Red/630nM	3000mcd Typ	5mm/T1-3/4	Water Clear	2.1V	5V	20mA	.001	$0.29	$0.22	$0.20
15109-OP	Red/635nM	3000mcd Typ	5mm/T1-3/4	Red Non Diffused	2.0V	5V	20mA	.001	$0.25	$0.20	$0.15
17142-OP	Green/574nM	460mcdmin	5mm/T1-3/4	Water Clear	2.1V	5V	20mA	.001	$0.18	$0.16	$0.14
17143-OP	Pure Green/525nM	5000mcd Min	5mm/T1-3/4	Water Clear	3.4V	5V	20mA	.001	$0.39	$0.30	$0.28
15111-OP	Yellow/585nM	3000mcd Typ	5mm/T1-3/4	Yellow Non Diffused	2.2V	5V	20mA	.001	$0.25	$0.20	$0.15
18036-OP	Yellow/585nM	40Typ	5mm/T-1-3/4	Yellow Non Diffused	2.6V	5V	20mA	.001	$0.10	$0.07	$0.05
17141-OP	Yellow/590nM	2000mcd Min	5mm/T1-3/4	Water Clear	2.5V	5V	20mA	.001	$0.18	$0.16	$0.14
0641-OP	Red/700nM	3.2mcd Typ	5mm/T1-3/4	Red Diffused	1.7V	5V	20mA	.001	$0.10	$0.09	$0.08
4085-OP	Green/565nM	5mcd Typ	5mm/T1-3/4	Green Diffused	2.2V	5V	20mA	.001	$0.15	$0.14	$0.12
18053-OP	Green/565nM/.5"Leads	19mcd Typ	5mm/T1-3/4	Green Diffused	2.2V	5V	20mA	.001	$0.10	$0.07	$0.05
4086-OP	Yellow/590nM	5mcd Typ	5mm/T1-3/4	Yellow Diffused	2.1V	5V	20mA	.001	$0.15	$0.14	$0.12
18038-OP	Red/Orange/630	19mcd/Typ	5mm/T1-3/4	Red Diffused	2.0V	5V	20mA	.001	$0.10	$0.07	$0.05
18039 OP	Red/Orange/630	20Typ	5mm/T1-3/4	Water Clear	2.0V	5V	20mA	.001	$0.10	$0.07	$0.05
17140-OP	Red/Orange/630nM	1500mcd Min	5mm/T1-3/4	Water Clear	2.1V	5V	20mA	.001	$0.18	$0.16	$0.14
15132-OP	Red/660nM	450mcd Typ	10mm	Red Diffused	1.8V	5V	20mA	.001	$0.25	$0.20	$0.15
15133-OP	Green/568nM	300mcd Typ	10mm	Green Diffused	2.2V	5V	20mA	.001	$0.30	$0.25	$0.20
15134-OP	Yellow/590nM	600mcd Typ	10mm	Yellow Diffused	2.1V	5V	20mA	.001	$0.30	$0.25	$0.20

BULK PACK LEDS 100PCS/PACK



STOCK#	COLOR/WAVELENGTH	INTENSITY	SIZE	CASE	VF	VRev max	IF cont.	WT	1PKG
15101-OP	Red/635nM	20mcd Typ	3mm/T1	Red Diffused	1.8V	5V	20mA	.1	$1.95
15102-OP	Green/568nM	10mcd Typ	3mm/T1	Green Diffused	2.2V	5V	20mA	.1	$1.95
15103-OP	Yellow/590nM	10mcd Typ	3mm/T1	Yellow Diffused	2.1V	5V	20mA	.1	$1.95
15108-OP	Red/635nM	50 mcd Typ	5mm/T1-3/4	Red Diffused	1.8V	5V	20mA	.1	$1.95
15308-OP	Green/568nM	5mcd Typ	5mm/T1-3/4	Green Diffused	2.2V	5V	20mA	.1	$1.95
15309-OP	Yellow/590nM	5mcd Typ	5mm/T1-3/4	Yellow Diffused	2.1V	5V	20mA	.1	$1.95

LED KIT #1

110 Piece, LED assortment packed in a plastic divider box, contains: 5pcs. 5mm Hi intensity White;10ea. of the following: 5mm red, green, yellow & infrared; 3mm red, green & yellow; 30ea. black mounting clips for 5mm LEDs.

WT: .3

STOCK #	DESC.	1EA	10+EA
16313-OP	LED Assortment Kit 1	$9.95	$7.95

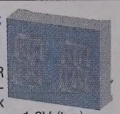
LED KIT #2

110 Piece, LED assortment packed in a plastic divider box, contains: 5pcs. 5mm Red/Green Bipolar (2 lead); 10ea. of the following: 5mm red, green, yellow & infrared; 3mm red, green & yellow; 30ea. black mounting clips for 5mm LEDs.

WT: .3

STOCK #	DESC.	1EA	10+EA
3770-OP	LED Assortment Kit 2	$9.95	$7.95

DUAL ALPHA-NUMERIC DISPLAYS

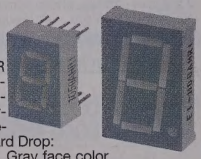


Dual. .54" Red, Common Anode OR Common Cathode, 16 Segment display. 660nm, 2.5-5 mcd, 20mA max forward current, 5V max reverse voltage, 1.8V (typ) forward drop. Gray face color

WT: .02

STOCK #	DESC.	1EA	10+EA
15128-OP	.54" Com. Anode Alpha.	$1.95	$1.49
15129-OP	.54" Com. Cath. Alpha.	$1.95	$1.49

7SEGMENT DISPLAYS

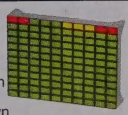


Red, Common Anode OR Common Cathode 7 segment display. 660nm, 3-4.5mcd, 20mA max forward current, 5V max reverse voltage. Typ. Forward Drop: 1.8V for .5in. /3.6V for 1". Gray face color

WT: .02

STOCK #	DESC.	1EA	10+EA
15118-OP	.5" Com. Anode Display	$1.30	$1.09
15119-OP	.5" Com. Cath. Display	$1.30	$1.09
15120-OP	1" Com. Anode Display	$0.95	$0.89
15121-OP	1" Com. Cath. Display	$0.95	$0.89

LED MATRIX DISPLAY



Unique LED graphical display with rectanglar LEDs in a 10X12 matrix. TYPE: X/YY Matrix. Colors as shown

Color	Vf	mCd	Dominant
RED	1.9 Typ @ 20mA	3-7	660nM
GREEN	2.1 Typ @ 20mA	3-5	565nM
YELLOW	2.2 Typ @ 20mA	3-5	585nM

Dot Size: Rect. 5.5mm X 3mm
Spacing: 2mmH/V between Dots
Gray Face/Diffused White Lens
DATA

L: 66mm H: 48mm T: 15mm WT: .057

STOCK #	DESC.	1EA
18050-OP	10 X 12 LED Matrix Display	$1.95

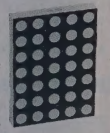
2" DOT MATRIX DISPLAYS

Red, Anode Column OR Cathode Column, 5 X 7 Dot Matrix display. 660nm, 5-9 mcd, 20mA max forward current, 5V max reverse voltage, 1.8V (typ) forward drop. Gray face color

WT: .02

STOCK #	DESC.	1EA	10+EA
15124-OP	2" Col. Cathode Dot Matrix	$4.59	$3.39
15125-OP	2" Col. Anode Dot Matrix	$4.59	$3.39

4" DOT MATRIX DISPLAY

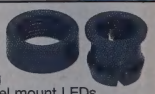


Red, AlGaAs, Anode Row, Cathode Column, 5 X 7 Dot Matrix display. 660nm, 10000 mcd, 100mA max, 20mA typ. forward current, 10V max reverse voltage, 4.8V (typ) forward drop. Black face color, Edge Stackable.

WT: .22

STOCK #	DESC.	1EA
18460-OP	4" Red 5X7 Dot Matrix Display	$7.95

JUMBO LED MOUNTING CLIPS



Two part black plastic mounting clips for .200" LEDs, use to panel mount LEDs.

WT: .001

STOCK #	DESC.	1EA	200+EA
0207-OP	Black LED Mtg. Clips	$0.10	$0.09

LED TESTER

Compact, pocket sized checker/comparator for LEDs. 12 position test socket strip provides test currents of 2,5, 10,20,30 & 50mA. 7 center positions provide 10mA test current allowing you to compare several LED at the same time. Requires 9V battery (not sup-

H: 3-1/8" **W:** 2-3/8" **T:** 7/8" **WT:** .1

STOCK #	DESC.	1EA	5+EA
14371-TE	LED Tester	$6.95	$5.95

20 X 4 LINE LCD B/L DISPLAY

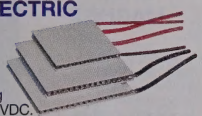
MFG: BOLYMIN
P/M: BC2004AYPLEH$
Resolution: 4 Lines X 20 Char
Char. Size: 2.95 X 4.75mm
Char. Pitch: .6mm
Specifications/Features: 5 X 7 + cursor Transflective type Dot Matrix display with built in controller (KS0066) & drivers. Yellow/Green LED Backlight. Requires single +5V for logic and LCD drive. LED supply: Max Current 250mA, Max Reverse Voltage: 8VDC, REQUIRES EXTERNAL RESISTOR. 16 Power & data pins. Data.

L: 3-7/8" **W:** 2-3/8" **T:** 1/2" **WT:** .15

STOCK #	DESC.	1EA	10+EA
17165-OP	20 X 4 Bolymin LCD	$19.95	$17.95

BE SURE TO CHECK OUR WEB SITE FOR NEW ITEMS & SPECIALS

12V THERMOELECTRIC COOLING MODULES

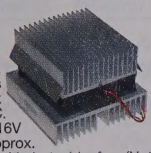


127 couple Peltier cooling modules optimized for 12VDC. MJ1.4-127-1.14 70W (~170 BTU) heat pumping possible. 8A max, 16V max, Draws 6A@ 12VDC

L: 1-11/16" **W:** 1-9/16" **T:** .127 **WT:** .06

STOCK #	DESC.	1EA	10+EA
12326-PM	70W Peltier Module	$17.95	$16.95

THERMOELECTRIC ASSEMBLY

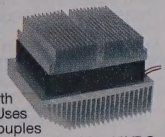


Peltier Effect cooling assembly. Contains module with 127 Pairs of couples mounted to a heatsink assembly. Optimized for 12VDC. 65-70W (~170 BTU). 8A max, 16V max, Draws 6A @ 12VDC. Approx. 50Deg "C" temp. difference with hot side fan (Not included) and insulated cold side. Designed for recreational coolers.

L: 5" **W:** 5-1/8" **T:** 3-3/4" **WT:** 2.6

STOCK #	DESC.	1EA	24+EA
15312-PM	Peltier Cooler Unit	$29.95	$27.95

LARGER THERMOELECTRIC ASSEMBLY



Peltier Effect cooling assembly with larger, more efficent heatsink. Uses module with 127 Pairs of couples mounted to a heatsink assembly. Optimized for 12VDC. 65-70W (~170 BTU). 8A max, 16V max, Draws 6A @ 12VDC. Approx. 50Deg "C" temp. difference with hot side fan (Not included) and insulated cold side. Designed for recreational coolers.

L: 6" **W:** 4-5/8" **T:** 4-1/4" **WT:** 3.4

STOCK #	DESC.	1EA	24+EA
15513-PM	Peltier Cooler Unit	$37.95	$34.95

SNAP-ON NOISE FILTERS

TIA-TECH P/N W5 SRH ferrite snap-on filters. Black Plastic case with type W5 split core material. Clamps around 3/8"cable and blocks noise. Frequencies from 25MHz to above 500MHz. impedance: 100+ @ 25MHz /200+ @ 100MHz

L: 1.3"

STOCK #	CABLE	DESC.	WT	1EA
18466-FL	.25"	Clam Noise Filter	.07	$0.99
18461-FL	.37"	Clam Noise Filter	.09	$2.49
18462-FL	.5"	Clam Noise Filter	.18	$1.25

SNAP-ON NOISE FILTERS

Fair-Rite P/N 0443167281ferrite snap-on filters. Plastic case with type 44 split core material. Clamps around cable up to .4in Dia. and blocks noise. Frequencies from 30MHz to500MHz. Permeability=500, impedance: 125@25MHz/210@100MHz

L: 1.55" **W:** .94" **H:** .94" **WT:** .08

STOCK #	DESC.	1EA	25+EA
17842-FL	.4" Clam Noise Filter	$2.49	$1.95

POWER CHOKES

DALE IH Series high current filter chokes. 1in. Radial tinned leads for P.C. mount. Rated: +-10% Ind. tol. , -55-+75° "C" operating temp. at full load.
IH-3-10uH/.018 ohm DC res./9A cont. L: 1" Dia: .63"
IH-5-50uH/.03 ohm DC res./8A cont. L: 1" Dia. .84"

STOCK #	DESC.	WT.	1EA
18059-CH	IH-3 10uH Choke	.03	$0.75
18048-CH	IH-5 50uH Choke	.07	$1.25

FILTER CAP

P.C Mount electrolytic Filter cap rated: 1000uF @ 100VDC. P.C. Mount Snap-in pins. For power supplies, Amps etc.

Dia: 13/16" **H:** 1-9/16" **WT:** .04

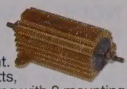
STOCK #	DESC.	1EA	300EA
18070-CR	1000uF Filter Cap	$1.25	$0.99

MONO CERAMIC CAPS

These small size monolythic ceramic caps are ideal for bypassing, filtering etc. Rated 50V. +-20% Tol.

STOCK #	VAL.	SPACE	1EA	10+EA	100+EA	1000+EA
5625-CM	10p	.1	$0.22	$0.12	$0.09	$0.06
5626-CM	15p	.1	.22	.12	.09	.06
5627-CM	22p	.1	.22	.12	.09	.06
5628-CM	39p	.1	.22	.12	.09	.06
5629-CM	47p	.1	.22	.12	.09	.06
5630-CM	68p	.1	.22	.12	.09	.06
5631-CM	100p	.1	.22	.12	.09	.06
5632-CM	220p	.1	.22	.12	.09	.06
5633-CM	330p	.1	.22	.12	.09	.06
5634-CM	470p	.1	.22	.12	.09	.06
5635-CM	680p	.1	.22	.12	.09	.06
5636-CM	1000p	.1	.37	.19	.15	.10
5637-CM	2200p	.1	.22	.12	.09	.06
5638-CM	3300p	.1	.22	.12	.09	.06
5639-CM	4700p	.1	.22	.12	.09	.06
5640-CM	6800p	.1	.22	.12	.09	.06
5641-CM	.010u	.1	.23	.12	.09	.06
5642-CM	.022u	.1	.23	.12	.09	.06
5643-CM	.033u	.1	.23	.12	.09	.06
5644-CM	.047u	.1	.23	.12	.09	.06
5645-CM	.056u	.1	.23	.12	.09	.06
2926-CM	.10u	.1	.23	.12	.09	.06
5646-CM	.10u	.2	.28	.15	.11	.08
5647-CM	.22u	.2	.28	.19	.15	.10

100 WATT RESISTOR



Dale aluminum cased, chassis mt. power resistor rated: 3K ohm, 100 Watts, 1%. Non-Inductive. Aluminum housing with 2 mounting ears. 12-24 threaded stainless steel stud terminals with nickel plated brass nuts.

L: 3-1/2" Body **W:** 2-7/8" O/A **H:** 2-3/4" O/A **WT:** .8

STOCK #	DESC.	1EA
17868-RS	100W 3K Ohm Resistor	$9.95

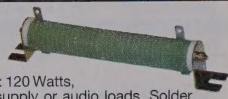
240 WATT ADJ. RESISTORS

Adjustable power resistors rated: 240 Watts, 5% with Adjustable slider tap contact. Use for power supply or audio loads. Solder terminals. No Mtg. Hardware.

L: 6-1/2 " **DIA:** 1-3/8" **WT:** .5

STOCK #	DESC.	1EA	10+EA
17443-RS	1.0 Ohm 240W Resistor	$12.95	$10.95

120 WATT RESISTORS



Power resistors rated: 120 Watts, 5%. Use for power supply or audio loads. Solder terminals and steel Mtg. brackets

L: 8-1/2 " **W:** 1-1/4" **H:** 2-1/2" O/A **WT:** .5

STOCK #	DESC.	1EA	50+EA
17785-RS	1 Ohm 120W Resistor	$5.95	$4.95
17786-RS	2 Ohm 120W Resistor	$5.95	$4.95
17787-RS	4 Ohm 120W Resistor	$6.95	$5.95
17788-RS	8 Ohm 120W Resistor	$6.95	$5.95
17789-RS	16 Ohm 120W Resistor	$6.95	$5.95

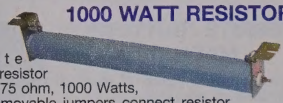
5 WATT RESISTORS

Ceramic Block, Power resistors rated: 5 Watts, 5%. Use for shunts, ballast resistors etc. 1-1/4" leads

L: 7/8" **W:** 3/8" **H:** 3/8" **WT:** .01

STOCK #	DESC.	1EA	100+EA
17790-RS	0.1 Ohm 5W Resistor	$0.35	$0.29
17791-RS	1.0 Ohm 5W Resistor	$0.35	$0.29

1000 WATT RESISTOR



Ohmite Power resistor rated: 775 ohm, 1000 Watts, 5%. Removable jumpers connect resistor to mounting brackets for use on buss bars. Solder terminals and slotted steel Mtg. brackets

L: 23-1/4" O/A **H:** 4" O/A **W:** 2-1/2" O/A **WT:** 5

STOCK #	DESC.	1EA
17867-RS	Super Power Resistor	$9.95

PIEZO AUDIO TRANSDUCERS

Mallory 2735FPL PC mount piezo annunciators. Rated: 3-28V drive, 88db output max, 3.5KHz resonant frequency. These require an external drive circuit to produce tone.

Dia: 30mm **HT:** 10mm+ 6mm standoff **WT:** .011

STOCK #	DESC.	1EA	10+EA
14470-SU	Piezo Transducer	$0.95	$0.89

MINI SPEAKER

ALC P/N GA0571H Mini 8 Ohm/1wATT, 2-1/4" paper cone speaker with alnico magnet. 7" Leads.

RND: 2-1/4" **H:** 3/4" **WT:** .1

STOCK #	DESC.	1EA
17987-SP	2-1/4"Mini Speaker	$1.95

NOISE CANCELING STEREO HEADSET

Noise canceling Stereo headset designed for use with all stereo equipment. 4-1/2ft. ZIP cord with 1/8" (3.5mm) stereo plug on end. 32ohm impedance, 80mW power, 104dB Sensitivity, 20-20KHz response. Silver body with black foam pads and headband.

WT: .13

STOCK #	DESC.	1EA
17286-SP	Jensen Stereo Headset	$19.50

MINI FET MIKE

Mini FET electret mike. Rated 100-7,000 Hz frequency, 2V standard operation voltage and 0.5mA Max current draw. 2" leads to micro connector. Used in phones etc

Dia: 6mm/.23" **T:** 3.4mm/.13" **WT:** .001

STOCK #	DESC.	1EA
17575-MK	FET Mike/2" leads	$0.49

ELECTRONIC ALARM

Electronic alarm operates on 6-18 VDC. Measures 1-5/8" dia & produces a 2900Hz tone. Use as pre-alarm for burgular alarms, or in paging systems, smoke & fire detectors, metal detectors, etc. Tab terminals.

Dia: 15/16" **H:** 5/8" **WT:** .3

STOCK #	DESC.	1EA	5+EA
0188-SU	Electric Alarm	$4.95	$3.95

PICK-UP MAGNET

Magnet with an "Eye" loop used to retrieve iron & steel items. Will lift in excess of 6lbs.

L: 1-7/8" **W:** 1" **H:** 1-1/2" **WT:** .25

STOCK #	DESC.	1EA
18279-MG	Pick-Up-Magnet	$1.99

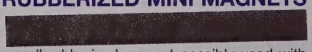
FERRITE "BUTTON" MAGNET

Uncoated ferrite magnet .7" dia X .2" thick. Medium strength.

Dia: .7" **T:** .2" **WT:** .013

STOCK #	DESC.	1EA
15470-MG	Mini Round Magnet	$0.25

RUBBERIZED MINI MAGNETS

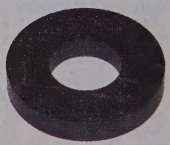


Very small rubberized magnet possibly used with hall effect sensors as position sensing. These magnets are only 20mm long X 2mm wide with an adheasive backing. You receive a strip of 100pcs for one low price.

L: 20mm **W:** 2mm **T:** 1mm **WT:** .02

STOCK #	DESC.	1PK	50PK+
14582-MG	100 Rubber Magnets	$1.00	$0.50

2-3/4" DIA. RING MAGNET



Strong uncoated ferrite ring magnet with 1-1/4" dia. center hole.

Dia: 2-3/4" **T:** 7/16" **WT:** .46

STOCK #	DESC.	1EA	10+EA
15262-MG	Ferrite Donut Magnet	$1.95	$1.75

CELL HEADPHONE & MIKE

Small, light weight communication headset for Motorola V3688, V8088, L2000 & P3689 phones. Dynamic earpiece. FET mike in the interconnecting cord. Ideal for hands free operation. 4ft cord with 2.5mm stereo phone plug.

WT: .07

STOCK #	DESC.	1EA	5+EA
12873-MK	Headphone & Mike	$4.95	$4.50

HEADSET & MIC

Headset for use with computers. 32 ohm stereo headset Features Noise canceling electret microphone on adjustable boom, adjustable headband with Foam earpiece. 5ft. cable from headphone to 1/8" plugs.

WT: .32

STOCK #	DESC.	1EA	25+EA
16799-MK	InChorus Headset	$4.95	$3.95

MINI FET MIKE

Mini FET electret mike. Rated 100-7,000 Hz frequency, 2V standard operation voltage and 0.5mA Max current draw. 2" leads to micro connector. Used in phones etc

Dia: 3/16" **T:** 1/8" **W T :**

STOCK #	DESC.	1EA
17448-MK	Mini FET Mike	$0.49

FERRITE POLE MAGNETS

Pair of Ferrite magnet assemblies each containing 2 trapazodial magnets between 2 steel plates supported by steel spacers. Each magnet is 1/4" Thick X 5/8"tall X 3/4" wide (max).

L: 2-1/4" **W:** 1-1/8" **T:** 1/2" **WT:** .23

STOCK #	DESC.	1EA	5+EA
11628-MG	Dual Magnet Assembly	$1.95	$1.49

RUBBERIZED MAGNET

Rubberized magnet used as part of a cabinet latch. Counter sunk screw holes at each end with a slanted center section with a 1/4" dia. hole for latch pin. Magnet is 1-1/2" X 1/2" wide X 11/32" thick (max).

L: 1-1/2" **W:** 1/2" **T:** 11/32" **WT:** .014

STOCK #	DESC.	1EA	5+EA
11443-MG	RubberMagnet	$0.40	$0.29

MAGNETIC TOOL BAR

24" Magnetic tool bar. Designed to attach to wall or bench and hold screwdrivers, wrenches, pliers or any steel item. Magnet Length: 22"

L: 24" **W:** 1" H: 1/2 **WT:** 2.4

STOCK #	DESC.	1EA
18280-TL	Magnet Tool Bar	$12.95

12VDC SIREN

6-12VDC self contained siren produces standard yelp or high pitch wail. Rated 115+-3db at 12VDC @ .2 A. Adjustable metal bracket & White plastic body. 12in. leads. For indoor & outdoor use

L: 6" **Dia:** 5-1/4" **WT:** .7

STOCK #	DESC.	1EA
18678-SU	6-12V Piezo Siren	$9.95

5" WEATHERPROOF SPEAKER

8ohm Impedance, 5in in/out door speaker rated: Frequency Range: 200Hz-15KHz, 20W peak power. White ABS plastic

Dia: 5" **WT:** 2

STOCK #	DESC.	1EA	5+EA
6239-SP	5" Weatherproof Spkr.	$8.75	$6.95

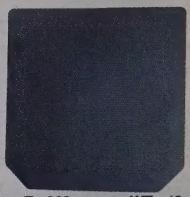
MINI 4 OHM SPEAKER

Gento P/N SP99023A, Mini 4 Ohm, 2" paper cone speaker with ferrite magnet.

Sq: 2-1/16" **H:** 1-1/2" **WT:** .28

STOCK #	DESC.	1EA	25+EA
14618-SP	Mini Speaker	$1.49	$1.25

SHEET MAGNET



Rubberized Rare earth magnet sheet with a white epoxy face. Neodymium, Iron, Boron combination offers very high strength. 7-3/8" Square except the corners are as pictured.

SQ: 7-3/8" **T:** .062 **WT:** .43

STOCK #	DESC.	1EA
18198-MG	Rubberized Magnet Sheet	$2.95

RARE EARTH DISC MAGNET

Disc shaped, nickel plated, strong, rare earth magnet.

D: 3/8" **T:** 1/16" **WT:** .002

STOCK #	DESC.	1EA	10+EA
18097-MG	3/8" Disc Magnet	$0.39	$0.25

RARE EARTH MAGNET

Removed from new equipment. Strong rare earth (Neodymium) magnets. Roughly a irregular cube. All have a nickel plating that maybe chipped.

L: 9mm (3/8") **W:** 7mm (9/32") **T:** 6mm7/32") **WT:** .001

STOCK #	DESC.	1EA	5+EA
14581-MG	Mini R/E Magnet	$1.95	$1.49

GIANT MAGNET

Removed from equipment. Large Ferrite magnet appears to be from some type of high power transmitter but we don't know. Epoxy coated.

L: 7-3/16" **W:** 2"" **T:** 2-1/4" **WT:** 4.5

STOCK #	DESC.	1EA	5+EA
14032-MG	Large Ferrite Mag	$17.95	$14.95

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1. All payments must be in US funds.

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Limited open accounts available to gov, schools, hospitals & certain corporations. For information contact our sales department.

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Orders shipped within Florida must pay Florida Sales Tax, unless we have a signed Florida Blanket Certificate of Resale on file before the sale. If you are required to pay sales tax in your state, that is your responsibility.

GUARANTEE

At our option, any defective product will be repaired or replaced within the warranty period by the same or substantially similar product or a refund will be issued.

RETURN POLICY

Inspect all packages upon receipt! If product was damaged in shipment to you, save box, packing & contact carrier.
Returns or exchanges must be within 15 days from date of invoice. Returned Items will be subject to a 15% restocking charge after 30days, An additional 5% per 30day period will added after 60 days.
(1-30days=0%/31-60days=15%/61-90days=20%/91-120days=25% etc.)
A return form is provided in your package, no need to call. Items must be complete, in original condition & packaging, including Manuals, cables, screws etc. **Internal manufacturer's packaging/boxes must be undamaged.** Returns not meeting these requirements will not be accepted. Pack carefully then ship freight paid (No COD).

SHIPPING & HANDLING

We are automated for United Parcel Service (UPS)
Exact cost calculated at time of shipment. UPS Does not include day of shipment in delivery schedules. CALL FOR HOLIDAY SCHEDULES
"Working Day" excludes Sat, Sun. & Holidays except noted below
UPS Ground Service: Most cost effective at this time
***UPS 3 Day Air:** (Orange Label) Order will be delivered in 3 working days.
***UPS 2 Day Air:** (Blue Label) Order will be delivered in 2 working days.
***UPS Overnight:** (Red label) Order must be placed by 3:00 PM Eastern time. (excludes Sat. Sun. & Holidays)
***Saturday Delivery:** Red Label Charge plus $15.00 (excludes Holidays)
Insurance: $0.50 per $100.00 **First $100.00 free.**
Dimensional Wt. UPS Air Shipments: Please be advised that UPS uses a different fee schedule for packages that do not conform to their dimension & weight guidelines. Packages measuring over 1 cubic foot will be based on dimensional weight of package when dim. wt. exceeds actual weight. Since each order is unique, this fee can only be calculated at time of shipment.

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ZIPCODE	ZONE	ZIPCODE	ZONE	ZIPCODE	ZONE	ZIPCODE	ZONE
004-005	6	308-319	4	540	7	690-693	7
010-046	6	320-322	3	541-547	6	700-726	5
047	7	323-325	4	548	7	727	6
048-076	6	326	3	549	6	728-729	5
077-078	5	327-339	2	550-558	7	730-748	6
079	6	342-347	2	559	6	749	5
080-089	5	349	2	560-585	7	750-754	6
100-149	6	350-353	4	586-599	8	755-759	5
150-163	5	354-359	5	600-619	6	760-769	6
164-165	6	360-368	4	620-622	5	770-778	5
166	5	369-394	5	623	6	779-797	6
167	6	395	4	624	5	798-799	7
168	5	396-397	5	625-627	6	800-814	7
169	6	399	4	628-633	5	815	8
170-183	5	400-433	5	634-635	6	816-820	7
184-188	6	434-436	6	636-639	5	821	8
189-199	5	437-462	5	640-653	6	822	7
200-279	5	463-468	6	654-655	5	823-864	8
280-285	4	469-479	5	656-676	6	865-885	7
286-288	5	480-499	6	677	7	889-961	8
289-299	4	500-511	6	678-686	6	970-986	8
300-306	6	512	7	687	7	988-994	8
307	5	513-539	6	688-689	6		

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3	$8.40	$9.27	$10.12	$10.46	$11.19	$11.52	$12.35
4	$8.64	$9.58	$10.64	$11.17	$11.31	$12.21	$13.19
5	$9.00	$9,72	$10.70	$11.62	$12.33	$12.82	$13.94
6	$9.27	$10.03	$11.29	$11.91	$12.56	$13.23	$14.38
7	$9.75	$10.32	$11.51	$12.24	$12.93	$13.58	$14.85
8	$10.13	$10.64	$11.82	$12.45	$13.34	$14.17	$15.74
9	$10.40	$10.94	$12.02	$12.75	$13.64	$14.90	$16.73
10	$10.73	$11.00	$12.24	$13.11	$14.23	$15.97	$17.86
11	$11.09	$11.49	$12.44	$13.36	$14.73	$17.03	$19.04
12	$11.40	$11.85	$12.70	$13.63	$15.39	$18.09	$19.73
13	$11.76	$12.19	$12.88	$13.94	$16.80	$15.24	$17.18
14	$11.99	$12.56	$13.13	$14.16	$16.99	$20.23	$22.98
15	$12.24	$12.95	$13.35	$14.60	$17.88	$21.33	$24.30
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18	$12.71	$13.95	$14.43	$16.30	$20.55	$24.51	$28.20

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COLOR INSPECTION CAMERA

MORE PG 45

Aardvark Jr.
Hand held borescope with 3ft. flexable, weather resistant (IP-67) Color camera probe and a 2-1/2in. LCD color monitor. The Aardvark Jr. is ideal for inspecting confined spaces such as AC Vents, sink drains, motor housings, air handlers, sub floor areas, walls and much more. Min. hole/pipe dia. 9.2mm (.36"). Includes: 3 pcs. Mirror/Hook/Magnet clip-on accessories. Requires 4 "AA" batteries(Not Included)

WT: 1.6

STOCK #	DESC.	1EA
18693-TE	**Aardvark Jr. Borescope**	$99.00

JR. ACCESSORIES

NOTE: Use of extensions Require min. 19.5mm hole
18121-TE 3ft. Flex Extension: Up to total of 5 can be used
18127-TE 15ft. Flex Extension.

PUSHBUTTON SWITCH

SPST pushbutton switches. Rated 3A@125V/1A @ 250VAC. Solder terminals. Mounts in 15/32" hole. TUV/CE Listed. **Not Lighted**

L: 1-5/8" O/A **DIA:** 21/32" **WT:** .02

STOCK #	BUTTON	DESC.	1EA
18378-SW	Red	On-Off Alternate action	$1.59
18379-SW	Red	Off-(On) Momentary	$1.59
18380-SW	Red	On-Off Momentary	$1.59
18381-SW	Green	On-Off Alternate action	$1.59

FULL SIZE 15A TOGGLE SWITCH

MORE PGS 52,53

.25"QUICK CONNECT TERMINALS.
Standard toggle switches, Mounts in a 15/32" hole. Rated: 10 Amps @ 250VAC. 15A @125VAC.

WT: .03

STOCK #	STYLE	DESC.	1EA
18371-SW	SPDT	On-None-On	$1.95
18372-SW	SPDT	(Mom)-Off-(Mom)	$1.95
18373-SW	DPDT	On-None-On	$1.95
18374-SW	DPDT	On-Off-On	$1.95
18375-SW	DPDT	(Mom)-Off-(Mom)	$1.95

ALLIGATOR CLIPS

H.H. Smith: #350
10pc. pack of 2" bright Tin Plated steel alligator clips. Can be soldered, accepts a banana Plug attached using the screw. For test leads, clip leads, or test jigs.

L: 2"O/A **H:** 1/2" O/A **WT:** .1

STOCK #	DESC.	PK10
18612-AL	**Smith Alligator Clips**	$2.95

36VCT/2A TRANSFORMER

MORE PG 13

MFG: STANCOR
P/N: P8672
Input: 117 VAC 50/60Hz
Output: 36VAC-CT @ 2A (18-0-18)
Specifications/Features: Open frame Step down transformer. 1500VRMS Isolation, 8" wire leads. RoHS

L: 2-3/4" **H:** 3-7/16" **W:** 2-13/16" **WT:** 3.7

STOCK #	DESC.	1EA
18680-TR	**Stancor 36VAC Transformer**	$12.95

18.5V @3.5A SUPPLY

MORE PG 10

P/N: PA1700-02
Input: 100-240 VAC 50/60Hz
Output: 18.5VDC @ 3.5A
Specifications/Features: Switching desktop supply for use as replacement for laptop computers. Overvoltage & current limit protection. Polarized 3 wire IEC Class 1 Type C6 input connector. 3ft output cord with ferrite filter & 11 mm long X 4.7/1.7mm coaxial connector. CE Listed. POWER CORD NOT INCLUDED.
ORDER POWER CORD: Stock # 18510-CB $1.10

L: 4-1/2" **W:** 2" **H:** 1-1/4" **WT:** .42

STOCK #	DESC.	1EA
18506-PS	**18.5V @ 3.5A Laptop Supply**	$8.95

12V @3.5A SUPPLY

MORE PG 10

P/N: PA1700-02
Input: 100-240 VAC 50/60Hz
Output: 12VDC @ 3.5A
Specifications/Features: Switching desktop supply for use as replacement for laptop computers. Overvoltage & current limit protection. Polarized 3 wire IEC Class 1 Type C6 input connector. 3ft output cord with ferrite filter & 11 mm long X 4.0/1.7mm coaxial connector. CE Listed. POWER CORD NOT INCLUDED.
ORDER POWER CORD: Stock # 18510-CB $1.10

L: 4-1/2" **W:** 2" **H:** 1-1/4" **WT:** .42

STOCK #	DESC.	1EA
18504-PS	**12V @ 3.5A Laptop Supply**	$9.95

SUCTION CUP MOUNT

Adjustable Plastic bracket with 2-3/4" suction cup for attachment to really smooth surface like glass. Possibly holds a GPS or microphone, we're not sure.

L: 5" **WT:** .3

STOCK #	DESC.	1EA
18521-MI	**Adj. Arm /Suction Cup**	$3.95

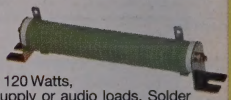
5V @ 500MA SUPPLY

MFG: SINO-AMERICAN
P/N: 217-03814
Input: 100-240 VAC 50/60Hz
Output: 5VDC@500mA
Specifications/Features:
Switching desktop supply with overvoltage & current limit protection. Std. IEC input connector. 6ft output cord with 5.5 OD/2.1mm ID/10mm coaxial plug Center +. UL/CSA/VDE/CE listed. AC CORD NOT INCLUDED.
MATING POWER CORD: ORDER Stock # 7378-CB

L: 3-1/8" **W:** 1-7/8" **T:** 1-3/8" **WT:** .3

STOCK #	DESC.	1EA
18606-PS	**5V/500mA Desktop Supply**	$1.95

120 WATT RESISTORS



Power resistors rated: 120 Watts, 5%. Use for power supply or audio loads. Solder terminals and steel Mtg. brackets

L: 8-1/2 " **W:** 1-1/4" **H:** 2-1/2" O/A **WT:** .5

STOCK #	DESC.	1EA	50+EA
17785-RS	**1 Ohm 120W Resistor**	$5.95	$4.95
17786-RS	**2 Ohm 120W Resistor**	$5.95	$4.95
17787-RS	**4 Ohm 120W Resistor**	$6.95	$5.95
17788-RS	**8 Ohm 120W Resistor**	$6.95	$5.95
17789-RS	**16 Ohm 120W Resistor**	$6.95	$5.95

5 WATT RESISTORS

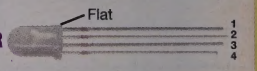
MORE PG 67

Ceramic Block, Power resistors rated: 5 Watts, 5%. Use for shunts, ballast resistors etc. 1-1/4" leads

L: 7/8" **W:** 3/8" **H:** 3/8" **WT:** .01

STOCK #	DESC.	1EA	100+EA
17790-RS	**0.1 Ohm 5W Resistor**	$0.35	$0.29
17791-RS	**1.0 Ohm 5W Resistor**	$0.35	$0.29

5MM TRI-COLOR LEDS



5mm (T1-3/4) Tri-Color Red/Green/Blue LED 4 leads. Transparent, diffused case. Common Cathode (C/C) with separate Anode lead for each color. 1" leads
Wavelength: R630/G525/B430nM,
Min. output: R200/G300/B150mcd .
Max forward current 20mA continuous.
Max Forward Drop: R2.5/G4.5/B4.5V.
Max reverse Voltage =5VDC.

1: Green
2: Com
3: Blue
4: Red

WT: .001

STOCK #	DESC.	1EA	10+EA
18605-OP	**C/C 5mm Tri-Color LED**	$0.99	$0.74

24VDC RUNNING TIME METER

MORE PG 40

ENM T33 series low power, Non-Resetable Time meter. 7digit, crystal contolled impulse counter. Black Face with White & Red numbers, Max 99999.99 hrs. 24VDC Operation, 10mW draw. Snap-in, front mounts in 1.18" X .51 cutout. 11" leads

W: 1-1/4" **H:** 9/16" **D:** 1-7/16" **WT:** .05

STOCK #	DESC.	1EA	5EA
17906-MI	**24VDC ENM Time Meter**	$14.95	$12.95

24V @2.65 A SUPPLY

MORE PG 10

Input: 100-240 VAC 50/60Hz
Output: 24VDC @ 2.65A
Specifications/Features: Switching desktop supply for use as replacement for certain laptop computers. Overvoltage & current limit protection. Polarized 3 wire IEC Class 1 Type C6 input connector. 3ft output cord with ferrite filter & unknown connector type
POWER CORD NOT INCLUDED.
ORDER POWER CORD: Stock # 18510-CB $1.10

L: 4-1/2" **W:** 2" **H:** 1-1/4" **WT:** .45

STOCK #	DESC.	1EA
18509-PS	**Apple 24V @ 2.65A Supply**	$19.95